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TECHNICAL REPORT ARBRL-TR-02054

A COMBINATORIAL GEOMETRY COMPUTER
DESCRIPTION OF THE XR311 VEHICLE

James E. Shiells

April 1978



US ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND
BALLISTIC RESEARCH LABORATORY
ABERDEEN PROVING GROUND, MARYLAND

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report documents four computer descriptions (COM-GEOM) of the XR311-TOW system. This included the Baseline XR311 (without armor) and three options with different armor configurations. The appendixes contain the actual computer descriptions of the four vehicles. These descriptions are also available at the BRL on either cards or magnetic tape. The shotline output of the GRID subroutine of the GIFT code is also stored on magnetic tape for future vulnerability analysis.		

TABLE OF CONTENTS

	Page
I. INTRODUCTION.	5
II. SYSTEM BACKGROUND	5
III. XR311 ARMORED VERSIONS.	7
IV. VALIDATION PROCESS.	12
V. CONCLUSIONS	12
APPENDIX A. Baseline XR311-TOW Description Listing . .	15
APPENDIX B. Option 1 XR311-TOW Description Listing . .	63
APPENDIX C. Option 2 XR311-TOW Description Listing . .	111
APPENDIX D. Option 3 XR311-TOW Description Listing . .	159
APPENDIX E. Combinatorial Geometry Background.	207
DISTRIBUTION LIST	213

I. INTRODUCTION

The XR311 is a high mobility lightweight vehicle that potentially may help counter the numerically superior Soviet Bloc tank threat to Western Europe. The anti-tank capability of the XR311 results from the fact that it is a highly maneuverable carrier for the TOW missile. An optimization study of the XR311-TOW system has been initiated by the Combat Development Directorate of the US Army Infantry School at Fort Benning, GA. This effort essentially consists of estimating the survivability of several XR311-armor/missile configurations by the US Army Materiel Systems Analysis Activity (USAMSAA) through the use of their war game simulations. To achieve this end, the Ballistic Research Laboratory (BRL) has been directed to supply USAMSAA with vulnerability information for each of the proposed versions of the XR311-TOW vehicles. These required vulnerability data are directly available as output from the vulnerable area (VAREA)¹ computer program. However, this program, requires as input, XR311 COM-GEOM descriptions as processed by the Geometric Information For Targets (GIFT)² computer code.

This report documents the COM-GEOM target description for all XR311-TOW systems under consideration. The output from the VAREA computer code is documented and is currently available in BRL Interim Memorandum Report No. 576 entitled "Vulnerable Area Estimates for Fragments Against The XR311 Combat Support Vehicle."

II. SYSTEM BACKGROUND

The XR311 combat vehicle was developed by the FMC Corporation in 1970. This vehicle is similar to a jeep in appearance and is shown with a ring mounted TOW launcher, in Figure 1. The XR311 is however, a very high performance, heavy duty vehicle with extended terrain crossing versatility as compared to a jeep. In 1972, ten XR311 vehicles were delivered to the US Army and were subsequently tested at Fort Knox, KY; Fort Gordon, GA and Fort Benning, GA. The XR311 demonstratively can serve various roles including command and control vehicle, reconnaissance vehicle, convoy escort vehicle, artillery forward observer vehicle and TOW missile carrier. It is the latter role, of TOW missile carrier, which is the subject of this report. The anti-tank capabilities of the XR311-TOW system results from the proven accuracy and lethality of the TOW missile. The TOW missile is a portable tube launched, optically tracked, wire guided anti-tank missile. The survivability of the XR311 TOW system is dependent on the high speed and mobility of the XR311 vehicle thereby making it a difficult target for enemy forces. The

1. *GENERAL VULNERABLE AREA PROGRAM, VOL 1 User Manual, Naval Weapons Center TN 4565-9-72, March 1974.*

2. *L.W. Bains and M.J. Reisinger, "The GIFT Code User Manual, VOL 1, Introduction and Input Requirements," Ballistic Research Laboratory Report No. 1902, July 1975. (AD #B013219L)*



Figure 1. XR311 Baseline

Infantry School at Fort Benning, GA has requested that consideration be given to adding Kevlar or nylon armor to the XR311-TOW system in order to further improve the survivability of the system on the battlefield. This concept may be a viable alternative for this vehicle in view of the high horsepower to weight ratio and therefore minimal expected loss of mobility due to the protective armor weight.

III. XR311 ARMOR VERSIONS

The basic XR311-TOW system is shown in Figure 1 and Figure 2 without armor and is hereafter referred to as the baseline version. War game survivability estimates of all armored versions of the XR311-TOW system will be compared against the baseline survivability in order to determine the relative merit of each armored configuration. There are three different versions of the armored XR311-TOW system. Figure 3 shows the XR311 Option 1 version. In the XR311 Option 1, the TOW launcher is mounted on a ring mount in the same manner as that of the baseline version as shown in Figure 2. Armor is placed around the crew compartment, the TOW launcher, the TOW ammunition and over the fuel cell for Option 1. The XR311 Option 2 version shown in Figure 4, is considerably different than the Option 1 version of the XR311. In Option 2 the TOW launcher is mounted on a pedestal mount such that missiles are fired out from the right side of the vehicle. In this version the armor is extended over the TOW launcher, crew and the TOW ammunition, however, the sides are open. Figure 5 shows the XR311 Option 3 armored version in which the forward firing TOW launcher is mounted on a pedestal. In the Option 3 version, armor is placed around the crew and the TOW launcher and ammunition.

Two different kinds of armor material were considered for each candidate in the vulnerability evaluation. Either the vehicle armor was entirely nylon or it was entirely kevlar. The following areal densities of nylon and Kevlar armor were considered; 7.32, 10.98, 12.21 and 14.65 kilograms per square metre. A maximum tolerable weight of armor was the constraining factor which precluded greater areal densities from consideration. In view of the significance of the armor weight to this study, resort to the MOMENT subroutine of GIFT was made in order to estimate the armor weight for each XR311-TOW vehicle version. Table 1 lists the total armor weight of each of the three versions of the XR311-TOW vehicle with the aforementioned armor areal densities. An additional report describing the MOMENT code of GIFT and the MOMENT output to the XR311-TOW system is currently in preparation.

The COM-GEOM description for the XR311-TOW system is representative of the combat ready mode. Therefore, the fuel tank is full, a complete set of TOW missiles are in place and the three man crew is in position. A right handed coordinate system was used with the origin located on the ground plane at the rear center of the XR311 vehicle. The positive Z-axis extends upward from the ground, the positive y-axis goes to the

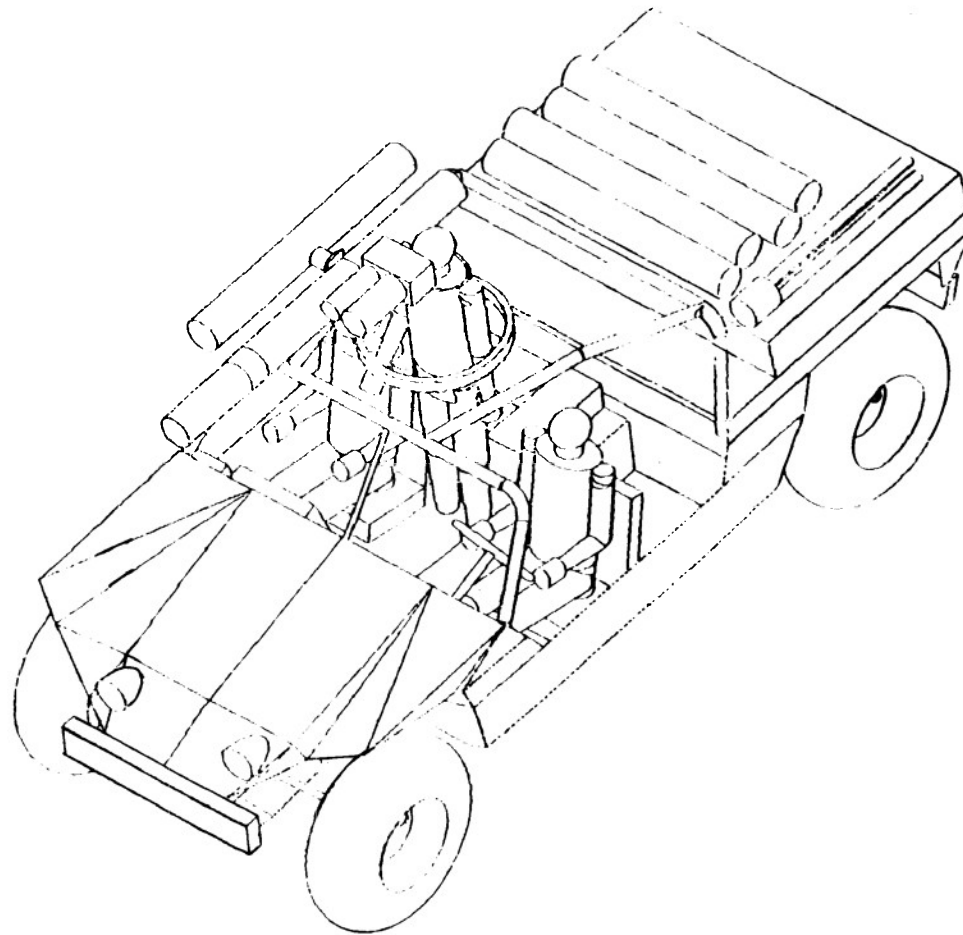


Figure 2. XR311 Baseline

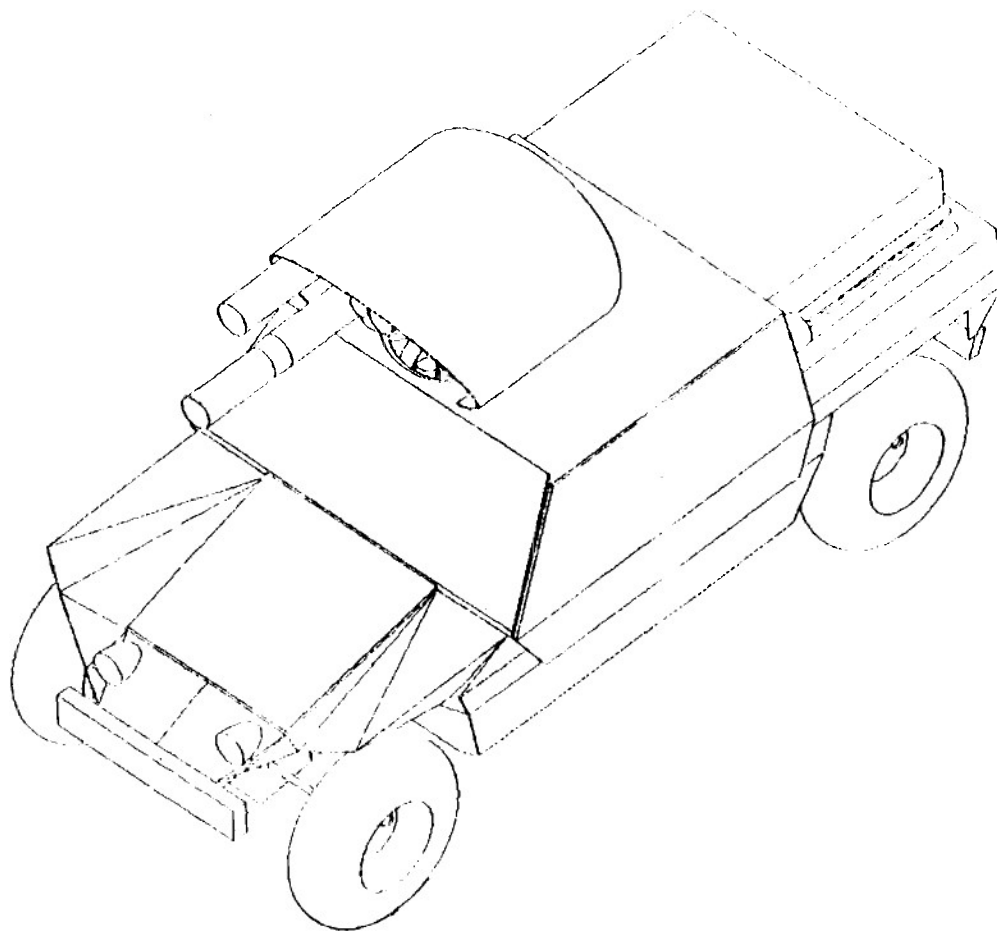


Figure 3. XR311 Option 1

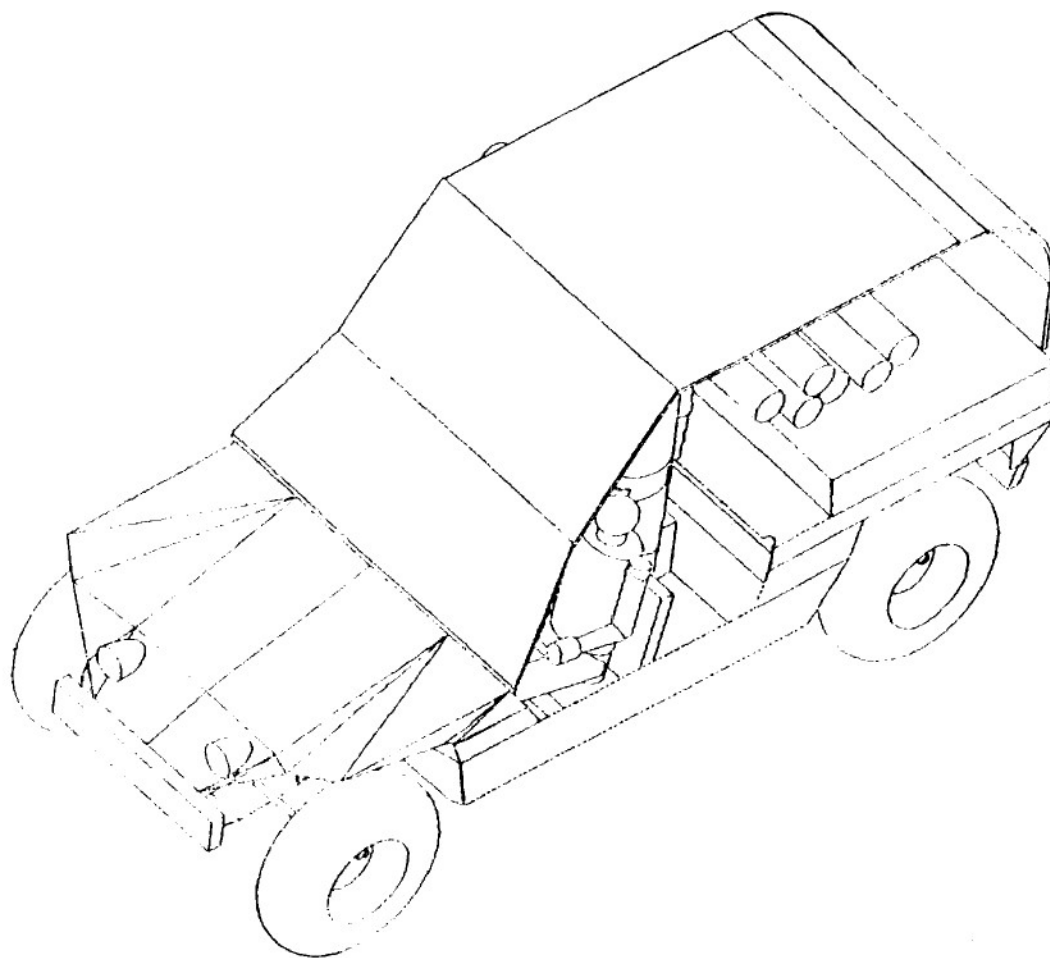


Figure 4. XR311 Option 2

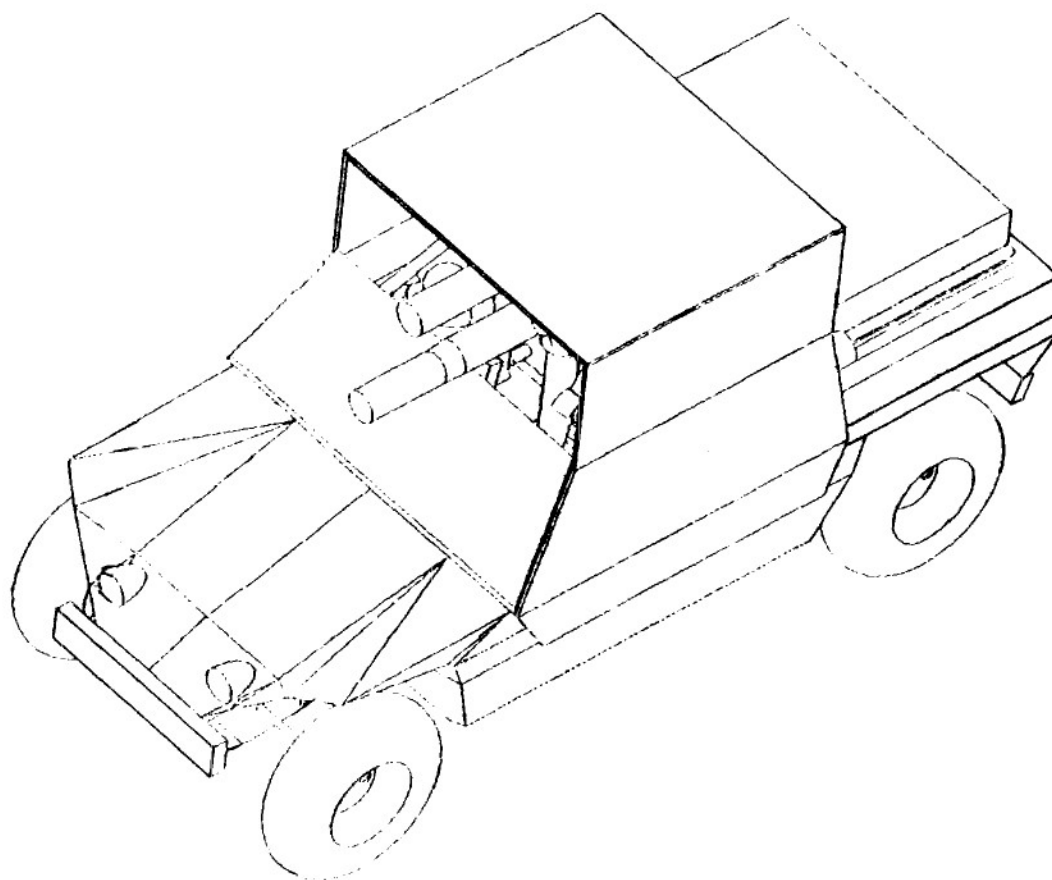


Figure 5. XR311 Option 3

Table 1. Armor Weight* (Kg) for XR311 Options

AREAL DENSITY (Kg/M ²)	OPTION 1	OPTION 2	OPTION 3
7.3	63	37	68
11.0	94	54	102
12.2	105	61	113
14.6	125	73	136

* Excluding Armor Windshield

left and the positive x-axis extends toward the front of the vehicle. Figure 6 shows this coordinate system superimposed on the power train of the XR311 vehicle. This figure as well as Figures 2 thru 4 are scaled computer drawings which were generated by the PICTUR subroutine of the GIFT code.

The COM-GEOM descriptions are available at the BRL on either cards or magnetic tape. Appendices A, B, C and D list the COM-GEOM descriptions for the "baseline", Option 1, Option 2 and Option 3 versions of the XR311-TOW system respectively.

IV. VALIDATION PROCESS

In the process of producing a target description, errors are inevitably made. A thorough validation process was used to eliminate errors in the XR311-TOW descriptions.

First, this description was processed via the CHECK subroutine of the GIFT code. This subroutine checks for overlapping regions to any specified tolerance level. Overlapping errors result when regions occupy the same space. No overlapping regions were found in the XR311-TOW descriptions for a line of sight tolerance of one-half (.5) millimetre.

In addition to overlapping, another error which may occur in target descriptions is the mislocation of a region. This type of error cannot be found by using the CHECK subroutine. The PICTURE subroutine of GIFT produces computer plots of one or more regions of a description. By carefully inspecting these plots, one can often find mislocation errors. Figures 2 through 5 are examples of the PICTUR subroutine output. PICTUR subroutine outputs were used extensively in validating this target description, especially the placement of interior components.

The GRID subroutine of the GIFT code traces rays through a target description at any specified aspect angle, listing the thicknesses and obliquity angles and location of each item encountered by each ray.

V. CONCLUSIONS

XR311-TOW vehicle candidates have been described using the COM-GEOM technique. The description has been produced and validated as an accurate model for use as input to the GIFT computer code. The descriptions are part of the BRL COM-GEOM description library and are presently available to the vulnerability community. The GRID output, as required by the VAREA program, is also available on magnetic tape at the BRL.

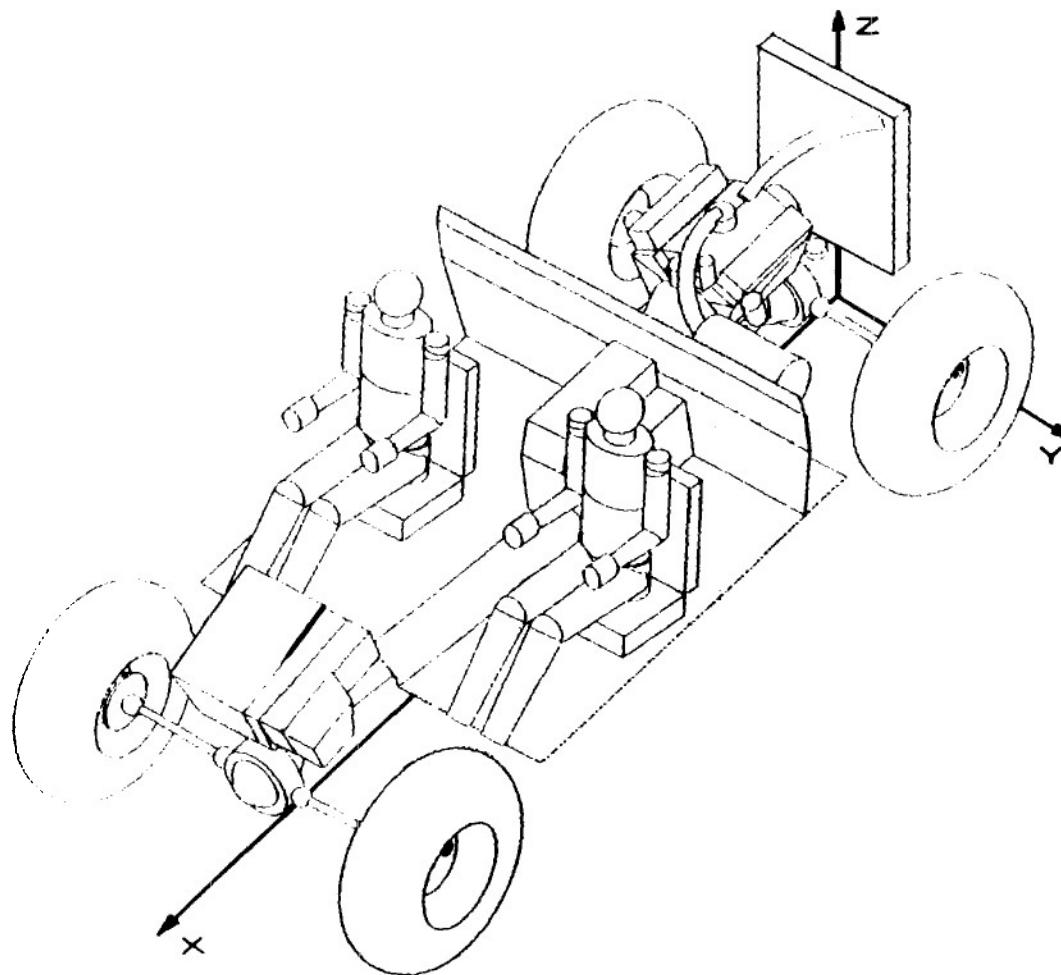


Figure 6. Coordinate System used in the COM-GEOM Description

APPENDIX A
BASELINE XR311-TOW DESCRITPION LISTING

TABLE A-1. SOLID DATA FOR BASELINE XR311

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
1 ARB8	983.0017	-54.9988	434.0013	983.0017	-170.0003	434.0013	
	983.0017	-170.0003	597.0014	983.0017	-30.0001	575.0024	
	1271.0032	-54.9988	434.0013	1271.0032	-170.0003	434.0013	
	1271.0032	-170.0003	597.0014	1271.0032	-30.0001	575.0024	
2 ARB8	983.0017	-30.0001	575.0024	983.0017	-170.0003	597.0014	
	983.0017	-74.9989	651.0020	983.0017	145.9998	575.0024	
	1271.0032	-30.0001	575.0024	1271.0032	-170.0003	597.0014	
	1271.0032	-74.9989	651.0020	1271.0032	145.9998	575.0024	
3 ARB8	983.0017	145.9998	575.0024	983.0017	-74.9989	651.0020	
	983.0017	-74.9989	714.0019	983.0017	145.9998	714.0019	
	1271.0032	145.9998	575.0024	1271.0032	-74.9989	651.0020	
	1271.0032	-74.9989	714.0019	1271.0032	145.9998	714.0019	
4 ARS	4	9	0				
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	0.0000	0.0000	0.0000	
	831.0024	161.9993	714.0019	831.0024	286.0000	991.0027	
	831.0024	180.0003	1041.0028	831.0024	135.0015	991.0027	
	831.0024	-54.9988	991.0027	831.0024	-105.9997	1041.0028	
	831.0024	-215.9999	991.0027	831.0024	-105.9997	714.0019	
	831.0024	161.9993	714.0019	0.0000	0.0000	0.0000	
	1316.0020	161.9993	714.0019	1316.0020	286.0000	991.0027	
	1316.0020	180.0003	1041.0028	1316.0020	135.0015	991.0027	
	1316.0020	-54.9988	991.0027	1316.0020	-105.9997	1041.0028	
	1316.0020	-215.9999	991.0027	1316.0020	-105.9997	714.0019	
	1316.0020	161.9993	714.0019	0.0000	0.0000	0.0000	
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLIO PARAMETERS						REMARKS
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	0.0000	0.0000	0.0000	
5 ARB8	831.0024	135.0015	991.0027	831.0024	34.0006	991.0027	
	831.0024	34.0006	1094.0026	831.0024	180.0003	1041.0028	
	1271.0032	135.0015	991.0027	1271.0032	34.0006	991.0027	
	1271.0032	34.0006	1094.0026	1271.0032	180.0003	1041.0028	
6 ARB8	831.0024	34.0006	991.0027	831.0024	-54.9988	991.0027	
	831.0024	-105.9997	1041.0028	831.0024	34.0006	1094.0026	
	1271.0032	34.0006	991.0027	1271.0032	-54.9988	991.0027	
	1271.0032	-105.9997	1041.0028	1271.0032	34.0006	1094.0026	
7 RCC	1067.0023	34.0006	1094.0026	0.0000	0.0000	58.0011	
	54.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
8 RCC	1271.0032	214.0009	766.0010	0.0000	102.9999	-98.0012	
	58.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
9 RCC	712.0004	34.0006	906.0012	118.9995	0.0000	0.0000	
	81.9991	0.0000	0.0000	0.0000	0.0000	0.0000	
10 RCC	1478.0039	707.0016	939.0011	0.0000	-421.0016	0.0000	
	118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
11 RCC	767.0017	228.9997	799.0008	0.0000	0.0000	30.0001	
	44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
12 RCC	1339.0018	410.0008	1116.0017	-22.9998	0.0000	-102.9999	
	42.9998	0.0000	0.0000	0.0000	0.0000	0.0000	
13 ARB8	373.0005	338.9999	1250.0024	373.0005	-334.0012	1250.0024	
	278.9998	-334.0012	1235.0011	278.9998	338.9999	1235.0011	
	488.0020	338.9999	504.9997	488.0020	-334.0012	504.9997	
	394.0013	-334.0012	490.0009	394.0013	338.9999	490.0009	
14 TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN 00
	0.0000	0.0000	264.9992	0.0000	-200.0004	0.0000	
	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
15 TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN 10
	0.0000	0.0000	258.9997	0.0000	-194.0009	0.0000	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
16 TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
	0.0000	0.0000	133.0000	0.0000	-100.0002	0.0000	
	1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
17 TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
	0.0000	0.0000	127.0005	0.0000	-94.0007	0.0000	
	1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
18 RCC	1758.0044	48.9993	714.0019	365.0020	0.0000	0.0000	TRANS
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
19 RCC	1927.0040	148.0013	504.9997	255.0018	0.0000	0.0000	
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
20 RCC	1994.0044	148.0013	504.9997	128.9995	0.0000	0.0000	
	125.9997	0.0000	0.0000	0.0000	0.0000	0.0000	
21 BOX	1994.0044	193.0001	526.0005	0.0000	-98.0012	208.9996	
	0.0000	-90.0002	-41.9991	128.9995	0.0000	0.0000	
22 RCC	3898.0086	0.0000	434.0013	-100.0002	0.0000	0.0000	DIFF
	118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
23 SPH	3856.0070	0.0000	434.0013	114.9990	0.0000	0.0000	DIFF
24 RCC	3608.0080	0.0000	458.0019	50.0001	0.0000	0.0000	DIFF
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
25 TRC	3798.0084	0.0000	434.0013	-140.0003	0.0000	0.0000	DIFF
	118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
26 SPH	3568.0079	0.0000	434.0013	40.0001	0.0000	0.0000	U-JOINT
27 SPH	2234.0048	148.0013	504.9997	40.0001	0.0000	0.0000	U-JOINT
28 RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
29 RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
	34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
30 SPH	3856.0070	188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
31 SPH	3856.0070	-188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
32 BOX	861.0024	286.0000	991.0027	0.0000	38.3999	81.3997	L COVER

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	0.0000	-105.9997	50.0001	424.9996	0.0000	0.0000	
33 BOX	861.0024	-215.9999	991.0027	0.0000	-38.3999	81.3997	R COVER
	0.0000	105.9997	50.0001	424.9996	0.0000	0.0000	
34 RCC	1316.0020	34.0006	991.0027	0.0000	0.0000	90.0002	DIST
	44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
35 RCC	1301.0033	140.0003	991.0027	0.0000	0.0000	140.0003	COIL
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
36 RCC	3856.0070	228.0015	434.0013	-22.9998	406.0003	-18.0011	L AXLE
	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
37 SPH	3833.0072	674.0018	416.0003	40.0001	0.0000	0.0000	U-JOINT
38 RCC	3856.0070	-228.0015	434.0013	-22.9998	-406.0003	-18.0011	R AXLE
	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
39 SPH	3833.0072	-674.0018	416.0003	40.0001	0.0000	0.0000	U-JOINT
40 RCC	796.0010	0.0000	458.0019	-100.0002	0.0000	0.0000	R DIFF
	148.0013	0.0000	0.0000	0.0000	0.0000	0.0000	
41 SPH	742.0004	0.0000	458.0019	114.9990	0.0000	0.0000	
42 TRC	796.0010	0.0000	458.0019	140.0003	0.0000	0.0000	
	118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
43 RCC	936.0013	0.0000	458.0019	50.0001	0.0000	0.0000	
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
44 SPH	746.0009	188.0014	458.0019	40.0001	0.0000	0.0000	
45 SPH	746.0009	-188.0014	458.0019	40.0001	0.0000	0.0000	
46 TRC	3833.0072	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
47 TRC	3833.0072	942.0006	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
48 TOR	3833.0072	604.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
49 RCC	3833.0072	666.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
50 RCC	3833.0072	714.0019	416.0003	0.0000	11.9990	0.0000	DISC

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
51 RCC	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
	3748.0083	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
52 RCC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3806.7409	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
53 RCC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3901.7729	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
54 RCC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3901.7729	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
55 RCC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3806.7409	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
56 TRC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3833.0072	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
57 TRC	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
	3833.0072	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
58 TOR	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
	3833.0072	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
59 RCC	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
	3833.0072	-942.0008	416.0003	0.0000	276.0000	0.0000	
60 RCC	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
	3833.0072	-714.0019	416.0003	0.0000	11.9990	0.0000	DISC
61 RCC	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
	3748.0083	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
62 RCC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3806.7409	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
63 RCC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3901.7729	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
64 RCC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3901.7729	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
65 RCC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3806.7409	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
66 TRC	767.0017	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
67 TRC	767.0017	942.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
68 TOR	767.0017	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
69 RCC	767.0017	666.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
70 RCC	767.0017	764.0020	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
71 RCC	682.0003	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
72 RCC	740.7355	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
73 RCC	835.7674	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
74 RCC	835.7674	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
75 RCC	740.7355	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
76 TRC	767.0017	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
77 TRC	767.0017	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
78 TOR	767.0017	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
79 RCC	767.0017	-942.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
80 RCC	767.0017	-764.0020	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
81 RCC	682.0003	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
82 RCC	740.7355	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
83 RCC	835.7674	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
84 RCC	835.7674	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
85 RCC	740.7355	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
86 TOR	1120.0022	220.0004	902.0007	0.0000	10.0000	8.0010	AIR HOSE
	310.0006	30.0001	0.0000	0.0000	0.0000	0.0000	
87 ARB8	1150.0022	366.0002	840.0016	1060.0021	0.0000	840.0016	AIR HOSE
	1500.0029	0.0000	840.0016	1500.0029	280.0005	840.0016	
	1150.0022	366.0002	1200.0023	1060.0021	0.0000	1200.0023	
	1500.0029	0.0000	1200.0023	1500.0029	280.0005	1200.0023	
88 RPP	1380.0027	3211.0070	-843.0014	843.0014	450.0009	451.9999	FLOOR CENT
89 AR88	1628.0042	-890.0017	1123.0019	1628.0042	890.0017	1123.0019	ENG COMPT
	1628.0042	914.0023	1031.0028	1628.0042	-914.0023	1031.0028	BULKHEAD
	1626.0026	-890.0017	1123.0019	1626.0026	890.0017	1123.0019	TOP
	1626.0026	914.0023	1031.0028	1626.0026	-914.0023	1031.0028	
90 ARB8	1628.0042	-914.0023	1031.0028	1628.0042	914.0023	1031.0028	ENG COMPT
	1628.0042	914.0023	837.0019	1628.0042	-914.0023	837.0019	UPPER CENT
	1626.0026	-914.0023	1031.0028	1626.0026	914.0023	1031.0028	BULKHEAD
	1626.0026	914.0023	837.0019	1626.0026	-914.0023	837.0019	
91 ARB8	1628.0042	-914.0023	837.0019	1628.0042	914.0023	837.0019	ENG COMPT
	1628.0042	840.0016	451.9999	1628.0042	-840.0016	451.9999	LOWER CENT
	1626.0026	-914.0023	837.0019	1626.0026	914.0023	837.0019	BULKHEAD
	1626.0026	840.0016	451.9999	1626.0026	-840.0016	451.9999	
92 ARB8	1628.0042	-840.0016	451.9999	1628.0042	840.0016	451.9999	ENG COMPT
	1628.0042	716.0009	369.0000	1628.0042	-716.0009	369.0000	LOWER
	1626.0026	-840.0016	451.9999	1626.0026	840.0016	451.9999	BULKHEAD

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
93 ARB8	1626.0026	716.0009	369.0000	1626.0026	-716.0009	369.0000	
	2200.0043	147.0005	752.0004	1630.0032	147.0005	752.0004	TRANS
	1630.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER
	2147.0044	147.0005	890.0017	1630.0032	147.0005	890.0017	
94 ARB8	1630.0032	-52.9998	890.0017	2147.0044	-52.9998	890.0017	
	2197.8630	145.0016	752.0004	1630.0032	145.0016	752.0004	TRANS
	1630.0032	-51.9991	752.0004	2197.8630	-51.9991	752.0004	COVER
	2145.6303	145.0016	888.0027	1630.0032	145.0016	888.0027	
95 ARB8	1630.0032	-51.9991	888.0027	2145.6303	-51.9991	888.0027	
	2200.0043	277.0008	752.0004	1630.0032	277.0008	752.0004	TRANS
	1630.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER
	2200.0043	277.0008	451.9999	1630.0032	277.0008	451.9999	
96 ARB8	1630.0032	-52.9998	451.9999	2200.0043	-52.9998	451.9999	
	2198.0053	275.0018	752.0004	1630.0032	275.0018	752.0004	TRANS
	1630.0032	-51.9991	752.0004	2198.0053	-51.9991	752.0004	COVER
	2198.0053	275.0018	451.9999	1630.0032	275.0018	451.9999	
97 ARB8	1630.0032	-51.9991	451.9999	2198.0053	-51.9991	451.9999	
	2200.0043	147.0005	754.0020	2200.0043	277.0008	754.0020	TRANS TOP
	1630.0032	277.0008	754.0020	1630.0032	147.0005	754.0020	COVER
	2200.0043	147.0005	752.0004	2200.0043	277.0008	752.0004	
	1630.0032	277.0008	752.0004	1630.0032	147.0005	752.0004	
98 SPH	1887.0039	148.0013	504.9997	40.0001	0.0000	0.0000	R TRANS U
99 SPH	976.0014	0.0000	458.0019	40.0001	0.0000	0.0000	R TRANS U
100 RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP DD
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
101 RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP DD
	34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
102 SPH	767.0017	723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
103 SPH	767.0017	-723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
104 RCC	746.0009	228.0015	458.0019	0.0000	455.0022	-41.9991	RR AXLE
	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
105 RCC	746.0009	-228.0015	458.0019	0.0000	-455.0022	-41.9991	RR AXLE
	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
106 TOR	578.0021	170.0003	740.0014	14.0005	30.0001	0.0000	H2O HOSE
	500.0010	30.0001	0.0000	0.0000	0.0000	0.0000	
107 RPP	373.0005	923.0015	-20.0000	300.0006	1090.0021	1270.0025	H2O HOSE
108 ARB8	2642.0041	801.0023	627.0015	2287.0047	801.0023	557.0013	SEAT
	2287.0047	295.0018	557.0013	2642.0041	295.0018	627.0015	
	2661.3514	801.0023	528.8910	2306.3494	801.0023	458.8909	
	2306.3494	295.0018	458.8909	2661.3514	295.0018	528.8910	
109 ARB8	2287.0047	801.0023	557.0013	2187.0045	801.0023	1047.0023	SEAT
	2187.0045	295.0018	1047.0023	2287.0047	295.0018	557.0013	
	2218.4168	801.0023	543.0033	2118.4166	801.0023	1033.0043	
	2118.4166	295.0018	1033.0043	2218.4168	295.0018	543.0033	
110 ARB8	2642.0041	-801.0023	627.0015	2287.0047	-801.0023	557.0013	SEAT
	2287.0047	-295.0018	557.0013	2642.0041	-295.0018	627.0015	
	2661.3514	-801.0023	528.8910	2306.3494	-801.0023	458.8909	
	2306.3494	-295.0018	458.8909	2661.3514	-295.0018	528.8910	
111 ARB8	2287.0047	-801.0023	557.0013	2187.0045	-801.0023	1047.0023	SEAT
	2187.0045	-295.0018	1047.0023	2287.0047	-295.0018	557.0013	
	2218.4168	-801.0023	543.0033	2118.4166	-801.0023	1033.0043	
	2118.4166	-295.0018	1033.0043	2218.4168	-295.0018	543.0033	
112 RCC	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
113 RCC	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
	98.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
114 RPP	1630.0032	3211.0070	-100.0002	250.0005	451.9999	605.0024	TUNNEL
115 TRC	2879.5179	635.5003	761.3172	300.7753	0.0000	-275.5317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
116 TRC	2879.5179	460.5013	761.3172	300.7753	0.0000	-275.5317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
117 TRC	2386.7407	635.5003	665.5309	492.7772	0.0000	95.7763	UP LEG LT

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
118 TRC	2386.7407	460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG RT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
119 SPH	2386.7407	635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
120 SPH	2386.7407	460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
121 REC	2402.0036	548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
	0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
122 REC	2371.4753	548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
	0.0000	145.0016	0.0000	105.0345	0.0000	20.4166	
123 REC	2321.8638	548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
	0.0000	145.0016	0.0000	105.0345	0.0000	20.4166	
124 RCC	2272.2548	740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
125 RCC	2272.2548	355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
126 TRC	2341.7089	740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
127 TRC	2341.7089	355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
128 RCC	2272.2548	548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
	60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
129 ELL1	2249.3567	548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
130 SPH	2879.5179	635.5003	761.3172	66.0149	0.0000	0.0000	KNEE LT
131 SPH	2879.5179	460.5013	761.3172	66.0149	0.0000	0.0000	KNEE RT
132 SPH	2341.7089	740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW LT
133 SPH	2341.7089	355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW RT
134 SPH	3201.0070	635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE LT
135 SPH	3201.0070	460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE RT
136 REC	2610.6756	740.5018	949.4786	103.0711	0.0000	20.0356	HAND LT
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID		SOLID PARAMETERS						REMARKS
NUM	TYPE							
137	REC	2610.6756	355.4998	949.4786	103.0711	0.0000	20.0356	HAND RT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
138	SPH	2281.7951	738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
139	SPH	2281.7951	358.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
140	TRC	2879.5179	-460.5013	761.3172	87.3916	0.0000	-449.5869	DUMMY
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
141	TRC	2879.5179	-460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
142	TRC	2879.5179	-635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG RT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
143	TRC	2386.7407	-460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG LT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
144	TRC	2386.7407	-635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG RT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
145	SPH	2386.7407	-460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
146	SPH	2386.7407	-635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
147	REC	2402.0036	-548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
		0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
148	REC	2371.4753	-548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
		0.0000	145.0016	0.0000	105.0345	0.0000	20.4166	
149	REC	2321.8638	-548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
		0.0000	145.0016	0.0000	105.0345	0.0000	20.4166	
150	RCC	2272.2548	-355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
151	RCC	2272.2548	-740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
152	TRC	2341.7089	-355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
153	TRC	2341.7089	-740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
154	RCC	2272.2548	-548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
		60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
155	ELL1	2249.3567	-548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
156	SPH	2879.5179	-460.5013	761.3172	66.0149	0.0000	0.0000	KNEE LT
157	SPH	2879.5179	-635.5003	761.3172	66.0149	0.0000	0.0000	KNEE RT
158	SPH	2341.7089	-355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW LT
159	SPH	2341.7089	-740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW RT
160	SPH	3201.0070	-460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE LT
161	SPH	3201.0070	-635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE RT
162	REC	2610.6756	-355.4998	949.4786	103.0711	0.0000	20.0356	HAND LT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
163	REC	2610.6756	-740.5018	949.4786	103.0711	0.0000	20.0356	HAND RT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
164	SPH	2281.7951	-356.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
165	SPH	2281.7951	-738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
166	ARB8	3952.0066	68.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
		3452.0057	0.0000	971.0026	3952.0066	0.0000	825.0003	(ONE)
		3890.0075	69.1086	609.0004	3352.0055	114.4275	657.0015	
		3352.0055	0.0000	657.0015	3890.0075	0.0000	609.0004	
167	ARB8	3952.0066	68.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
		3452.0057	221.9994	971.0026	3952.0066	181.9993	825.0003	(TWO)
		3890.0075	70.4294	657.0015	3414.0071	112.5301	809.0008	
		3414.0071	220.4271	809.0008	3890.0075	181.9993	657.0015	
168	ARB8	3668.0081	208.0014	931.0026	3728.0082	360.0007	909.0010	FUEL CELL
		3952.0066	340.0007	825.0003	3951.8441	182.0197	824.5609	(THREE)
		3668.0081	208.0014	731.0022	3717.7517	334.0215	705.0738	
		3889.8323	320.7245	656.5265	3893.9065	187.3181	667.5660	
169	ARB8	3890.0075	0.0000	609.0004	3890.0075	-291.9995	609.0004	FUEL CELL
		3952.0066	-375.1976	825.0003	3952.0066	0.0000	825.0003	(FOUR)
		3352.0055	0.0000	609.0004	3352.0055	-235.9999	609.0004	
		3452.0057	-380.0007	985.0006	3452.0057	0.0000	985.0006	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

29

SOLID		SOLID PARAMETERS						REMARKS	
NUM	TYPE								
170	ARB6	3988.0087	337.0009	755.0027	4296.0078	337.0009	723.0011	FEND	INSD
		4295.8503	338.2963	721.4848	3987.8513	338.2963	753.4863		
		4247.0085	454.0014	828.0026	4246.8510	455.2968	826.4862		
171	ARB6	3988.0087	-337.0009	755.0027	4247.0085	-454.0014	828.0026	FEND	INSD
		4246.8231	-455.3349	826.5218	3987.8233	-338.3344	753.5219		
		3988.0087	-458.0019	864.0022	3987.8233	-459.3329	862.5214		
172	ARB6	3988.0087	337.0009	755.0027	4247.0085	454.0014	828.0026	FEND	INSD
		4246.8231	455.3349	826.5218	3987.8233	338.3344	753.5219		
		3988.0087	458.0019	864.0022	3987.8233	459.3329	862.5214		
173	ARB6	3100.0060	-494.0015	1101.0029	3988.0087	-458.0019	864.0022	FEND	INSD
		3987.6760	-459.3456	862.5569	3099.6758	-495.3451	1099.5576		
		4152.0070	-694.0019	1046.0015	4151.6768	-695.3455	1044.5588		
174	ARB6	3100.0060	494.0015	1101.0029	3988.0087	458.0019	864.0022	FEND	INSD
		3987.6760	459.3456	862.5569	3099.6758	495.3451	1099.5576		
		4152.0070	694.0019	1046.0015	4151.6768	695.3455	1044.5588		
175	ARB6	3988.0087	-458.0019	864.0022	4247.0085	-454.0014	828.0026	FEND	INSD
		4246.8180	-455.2968	826.4913	3987.8182	-459.2973	862.4909		
		4152.0070	-694.0019	1046.0015	4151.8191	-695.2973	1044.4902		
176	ARB6	3988.0087	458.0019	864.0022	4247.0085	454.0014	828.0026	FEND	INSD
		4246.8180	455.2968	826.4913	3987.8182	459.2973	862.4909		
		4152.0070	694.0019	1046.0015	4151.8191	695.2973	1044.4902		
177	ARB6	3100.0060	-494.0015	1101.0029	4152.0070	-694.0019	1046.0015	FEND	INSD
		4151.8597	-694.2381	1044.0229	3099.8587	-494.2377	1099.0217		
		4017.0080	-894.0022	1080.0021	4016.8582	-894.2385	1078.0209		
178	ARB6	3100.0060	494.0015	1101.0029	4152.0070	694.0019	1046.0015	FEND	INSD
		4151.8597	694.2381	1044.0229	3099.8587	494.2377	1099.0217		
		4017.0080	894.0022	1080.0021	4016.8582	894.2385	1078.0209		
179	ARB6	3100.0060	-494.0015	1101.0029	4017.0080	-894.0022	1080.0021	FEND	INSD
		4016.9623	-894.0022	1078.0031	3099.9603	-494.0015	1099.0014		
		3100.0060	-893.0015	1101.0029	3099.9603	-893.0015	1099.0014		
180	ARB6	3100.0060	494.0015	1101.0029	4017.0080	894.0022	1080.0021	FEND	INSD

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
30	181 RPP	4016.9623	894.0022	1078.0031	3099.9603	494.0015	1099.0014	
		3100.0060	893.0015	1101.0029	3099.9603	893.0015	1099.0014	
	182 ARB6	4296.0078	4371.0092	-508.0020	510.0010	546.0005	723.0011	BUMBER
	182 ARB6	4017.0080	894.0022	1080.0021	3465.0054	917.0020	1013.0017	BODY SIDE
		3464.9953	915.0843	1012.4327	4016.9979	892.0845	1079.4331	
	183 ARB6	3100.0060	893.0015	1101.0029	3099.9958	891.0838	1100.4339	
		4017.0080	-894.0022	1080.0021	3465.0054	-917.0020	1013.0017	BODY SIDE
		3464.9953	-915.0843	1012.4327	4016.9979	-892.0845	1079.4331	
		3100.0060	-893.0015	1101.0029	3099.9958	-891.0838	1100.4339	
	184 ARB6	3465.0054	917.0020	1013.0017	3412.0056	917.0020	982.0009	BODY SIDE
		3412.0996	915.0107	981.8434	3465.0994	915.0107	1012.8442	
	185 ARB6	3100.0060	893.0015	1101.0029	3100.0974	891.0101	1100.8429	
		3465.0054	-917.0020	1013.0017	3412.0056	-917.0020	982.0009	BODY SIDE
		3412.0996	-915.0107	981.8434	3465.0994	-915.0107	1012.8442	
		3100.0060	-893.0015	1101.0029	3100.0974	-891.0101	1100.8429	
	186 ARB6	3412.0056	917.0020	982.0009	3007.0061	917.0020	971.0026	BODY SIDE
		3007.0162	915.0361	970.6318	3412.0158	915.0361	981.6326	
	187 ARB6	3100.0060	893.0015	1101.0029	3100.0162	891.0355	1100.6321	
		3412.0056	-917.0020	982.0009	3007.0061	-917.0020	971.0026	BODY SIDE
		3007.0162	-915.0361	970.6318	3412.0158	-915.0361	981.6326	
		3100.0060	-893.0015	1101.0029	3100.0162	-891.0355	1100.6321	
	188 ARB6	3412.0056	917.0020	982.0009	3412.0056	917.0020	971.0026	BODY SIDE
		3412.0056	915.0005	971.0026	3412.0056	915.0005	982.0009	
	189 ARB6	3007.0061	917.0020	971.0026	3007.0061	915.0005	971.0026	
		3412.0056	-917.0020	982.0009	3412.0056	-917.0020	971.0026	BODY SIDE
		3412.0056	-915.0005	971.0026	3412.0056	-915.0005	982.0009	
		3007.0061	-917.0020	971.0026	3007.0061	-915.0005	971.0026	
	190 ARB8	3412.0056	917.0020	971.0026	3362.0055	917.0020	837.0019	BODY SIDE
		2926.0052	917.0020	837.0019	3007.0061	917.0020	971.0026	
		3412.0056	915.0005	971.0026	3362.0055	915.0005	837.0019	
		2926.0052	915.0005	837.0019	3007.0061	915.0005	971.0026	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
191 ARB8	3412.0056	-917.0020	971.0026	3362.0055	-917.0020	837.0019	BODY SIDE
	2926.0052	-917.0020	837.0019	3007.0061	-917.0020	971.0026	
	3412.0056	-915.0005	971.0026	3362.0055	-915.0005	837.0019	
	2926.0052	-915.0005	837.0019	3007.0061	-915.0005	971.0026	
192 ARB8	3362.0055	917.0020	837.0019	3235.0050	843.0014	451.9999	BODY SIDE
	1354.0031	843.0014	451.9999	1229.0016	917.0020	837.0019	
	3362.0055	915.0386	837.3803	3235.0050	841.0380	452.3783	
	1354.0031	841.0380	452.3783	1229.0016	915.0386	837.3803	
193 ARB8	3362.0055	-917.0020	837.0019	3235.0050	-843.0014	451.9999	BODY SIDE
	1354.0031	-843.0014	451.9999	1229.0016	-917.0020	837.0019	
	3362.0055	-915.0386	837.3803	3235.0050	-841.0380	452.3783	
	1354.0031	-841.0380	452.3783	1229.0016	-915.0386	837.3803	
194 ARB8	3235.0050	843.0014	451.9999	3211.0070	716.0009	369.0000	ROCKER PAN
	1380.0027	716.0009	369.0000	1354.0031	843.0014	451.9999	
	3235.0050	841.9066	453.6763	3211.0070	714.9061	370.6738	
	1380.0027	714.9061	370.6738	1354.0031	841.9066	453.6763	
195 ARB8	3235.0050	-843.0014	451.9999	3211.0070	-716.0009	369.0000	ROCKER PAN
	1380.0027	-716.0009	369.0000	1354.0031	-843.0014	451.9999	
	3235.0050	-841.9066	453.6763	3211.0070	-714.9061	370.6738	
	1380.0027	-714.9061	370.6738	1354.0031	-841.9066	453.6763	
196 ARB8	180.0003	-791.0023	678.0023	180.0003	-742.0004	491.0017	R BUMPER
	180.0003	746.0009	491.0017	180.0003	792.0005	678.0023	
	121.9992	-791.0023	678.0023	121.9992	-742.0004	491.0017	
	121.9992	746.0009	491.0017	121.9992	792.0005	678.0023	
197 ARB8	173.6503	-782.7727	671.6523	173.6503	-737.1007	497.3517	INS BUMPER
	173.6503	741.0251	497.3517	173.6503	783.9004	671.6523	
	128.3492	-782.7727	671.6523	128.3492	-737.1007	497.3517	
	128.3492	741.0251	497.3517	128.3492	783.9004	671.6523	
198 ARB8	1701.0041	917.0020	1031.0028	1757.0037	917.0020	837.0019	REAR SIDE
	1229.0016	917.0020	837.0019	1171.0030	917.0020	1031.0028	
	1701.0041	915.0005	1031.0028	1757.0037	915.0005	837.0019	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
199	ARB8	1229.0016	915.0005	837.0019	1171.0030	915.0005	1031.0028	
		1701.0041	-917.0020	1031.0028	1757.0037	-917.0020	837.0019	REAR SIDE
		1229.0016	-917.0020	837.0019	1171.0030	-917.0020	1031.0028	
		1701.0041	-915.0005	1031.0028	1757.0037	-915.0005	837.0019	
200	ARB8	1229.0016	-915.0005	837.0019	1171.0030	-915.0005	1031.0028	
		1666.0027	893.0015	1123.0019	1701.0041	917.0020	1031.0028	REAR SIDE
		128.9995	917.0020	1031.0028	115.9997	893.0015	1123.0019	
		1666.0027	891.0660	1122.4965	1701.0041	915.0665	1030.4973	
201	ARB8	128.9995	915.0665	1030.4973	115.9997	891.0660	1122.4965	
		1666.0027	-893.0015	1123.0019	1701.0041	-917.0020	1031.0028	REAR SIDE
		128.9995	-917.0020	1031.0028	115.9997	-893.0015	1123.0019	
		1666.0027	-891.0660	1122.4965	1701.0041	-915.0665	1030.4973	
202	ARB8	128.9995	-915.0665	1030.4973	115.9997	-891.0660	1122.4965	
		351.0014	917.0020	1031.0028	224.9992	792.0005	678.0023	REAR SIDE
		180.0003	792.0005	678.0023	128.9995	917.0020	1031.0028	
		351.0014	915.1173	1031.6706	224.9992	790.1158	678.6678	
203	ARB8	180.0003	790.1158	678.6678	128.9995	915.1173	1031.6706	
		351.0014	-917.0020	1031.0028	224.9992	-792.0005	678.0023	REAR SIDE
		180.0003	-792.0005	678.0023	128.9995	-917.0020	1031.0028	
		351.0014	-915.1173	1031.6708	224.9992	-790.1158	678.6678	
204	ARB8	180.0003	-790.1158	678.6678	128.9995	-915.1173	1031.6708	
		115.9997	893.0015	1123.0019	128.9995	917.0020	1031.0028	REAR
		180.0003	792.0005	678.0023	182.2737	351.0014	678.0023	
		117.9809	893.0116	1123.2839	130.9807	917.0122	1031.2847	
205	ARB8	181.9790	792.0107	678.2843	184.2549	351.0116	678.2843	
		115.9997	-893.0015	1123.0019	128.9995	-917.0020	1031.0028	REAR
		180.0003	-792.0005	678.0023	182.2737	-351.0014	678.0023	
		117.9809	-893.0116	1123.2839	130.9807	-917.0122	1031.2847	
206	ARB6	181.9790	-792.0107	678.2843	184.2549	-351.0116	678.2843	
		115.9997	893.0015	1123.0019	182.2737	351.0014	678.0023	REAR
		184.2523	351.0014	678.2970	117.9784	893.0015	1123.2966	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
207 ARB6	115.9997	351.0014	1123.0019	117.9784	351.0014	1123.2966	
	115.9997	-893.0015	1123.0019	182.2737	-351.0014	678.0023	REAR
	184.2523	-351.0014	678.2970	117.9784	-893.0015	1123.2966	
208 ARB8	115.9997	-351.0014	1123.0019	117.9784	-351.0014	1123.2966	
	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
	4140.0080	261.9995	321.0014	4296.0078	311.0014	546.0005	
	4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184	
209 ARB8	4134.7908	261.9995	324.6184	4290.7906	311.0014	549.6201	
	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
	4140.0080	-261.9995	321.0014	4296.0078	-311.0014	546.0005	
	4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184	
210 ARB8	4134.7908	-261.9995	324.6184	4290.7906	-311.0014	549.6201	
	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
	3957.0079	261.9995	288.0016	4140.0080	261.9995	321.0014	
	4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
211 ARB8	3955.8802	261.9995	294.2500	4138.8803	261.9995	327.2498	
	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
	3957.0079	-261.9995	288.0016	4140.0080	-261.9995	321.0014	
	4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
212 ARB8	3955.8802	-261.9995	294.2500	4138.8803	-261.9995	327.2498	
	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
	3214.0067	270.0005	369.0000	3957.0079	261.9995	288.0016	
	3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
213 ARB8	3214.6925	270.0005	375.3144	3957.6937	261.9995	294.3135	
	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
	3214.0067	-270.0005	369.0000	3957.0079	-261.9995	288.0016	
	3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
214 ARB8	3214.6925	-270.0005	375.3144	3957.6937	-261.9995	294.3135	
	3362.0055	915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
	3211.0070	714.0019	369.0000	3237.7863	841.0024	451.9999	
	3360.1030	915.0005	837.6166	3209.1020	0.0000	369.6146	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
215 ARB8	3209.1020	714.0019	369.6146	3235.8838	841.0024	452.6145	
	3362.0055	-915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
	3211.0070	-714.0019	369.0000	3237.7863	-841.0024	451.9999	
	3360.1030	-915.0005	837.6166	3209.1020	0.0000	369.6146	
216 ARB8	3209.1020	-714.0019	369.6146	3235.8838	-841.0024	452.6145	
	3211.0070	0.0000	369.0000	3362.0055	915.0005	837.0019	BULKHEAD
	3412.0056	915.0005	982.0009	3426.5243	0.0000	994.0024	
	3209.1147	-.0203	369.6527	3360.1157	914.9802	837.6547	
217 ARB8	3410.1158	914.9802	982.6537	3424.6320	-.0203	994.6527	
	3211.0070	0.0000	369.0000	3362.0055	-915.0005	837.0019	BULKHEAD
	3412.0056	-915.0005	982.0009	3426.5243	0.0000	994.0024	
	3209.1147	.0203	369.6527	3360.1157	-914.9802	837.6547	
218 RPP	3410.1158	-914.9802	982.6537	3424.6320	.0203	994.6527	
	4302.3578	4364.6592	-501.6520	503.6510	552.3506	716.6511	BUMBER
	1316.0020	843.0014	1287.0027	92.9999	843.0014	1287.0027	ENG DECK
	92.9999	-845.0004	1287.0027	1316.0020	-845.0004	1287.0027	
219 ARB8	1341.0034	893.0015	1123.0019	115.9997	893.0015	1123.0019	
	115.9997	-887.0020	1123.0019	1341.0034	-887.0020	1123.0019	
	1314.2850	841.5206	1285.0038	95.3012	841.5206	1285.0038	INS ENG
	95.3012	-843.4484	1285.0038	1314.2850	-843.4484	1285.0038	DECK
220 ARB8	1338.9790	890.9110	1123.0019	118.0190	890.9110	1123.0019	
	118.0190	-884.9369	1123.0019	1338.9790	-884.9369	1123.0019	
	2843.0053	635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
	148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
221 TOR	2843.0053	-635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
	148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
222 TOR	2843.0053	-635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
	148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
	2893.0053	635.0000	1424.0515	2849.1064	844.2511	1480.3026	ROLL BAR
	2751.7046	844.2511	1605.0526	2751.6944	635.0000	1605.0450	CORNER
223 ARB8	2792.8604	635.0000	1345.8395	2749.1062	844.2511	1402.2024	
	2651.7044	844.2511	1526.9524	2651.5495	635.0000	1526.8305	
	2893.0053	-635.0000	1424.0515	2849.1064	-844.2511	1480.3026	ROLL BAR

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	2751.7046	-844.2511	1605.0526	2751.7046	-635.0000	1605.0526	CORNER
	2793.0052	-635.0000	1345.9538	2749.1062	-844.2511	1402.2024	
	2651.7044	-844.2511	1526.9524	2651.7044	-635.0000	1526.9524	
225 RCC	2753.0051	635.0000	1500.0029	0.0000	-1270.0025	0.0000	ROLL BAR
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	TOP
226 RCC	2812.0044	775.0002	1427.0030	264.9992	91.9992	-338.0017	ROLL BAR
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
227 RCC	2812.0044	-775.0002	1427.0030	264.9992	-91.9992	-338.0017	ROLL BAR
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
228 RCC	2735.0040	0.0000	1522.0019	351.8498	0.0000	-449.7012	CENTRE BAR
	11.9990	0.0000	0.0000	0.0000	0.0000	0.0000	
229 TOR	1540.0030	660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR
	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
230 TOR	1540.0030	-660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR
	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
231 ARB6	1582.0020	672.0003	1653.0029	1582.0020	843.0014	1505.0042	ROLL BAR
	1480.0029	843.0014	1473.0026	1480.0029	672.0003	1621.0039	CORNER
	1582.0020	672.0003	1461.0036	1480.0029	672.0003	1429.0020	
232 ARB6	1582.0020	-672.0003	1653.0029	1582.0020	-843.0014	1505.0042	ROLL BAR
	1480.0029	-843.0014	1473.0026	1480.0029	-672.0003	1621.0039	CORNER
	1582.0020	-672.0003	1461.0036	1480.0029	-672.0003	1429.0020	
233 RCC	1500.0029	672.0003	1547.0033	0.0000	-1344.0031	0.0000	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR TOP
234 RCC	1530.0030	774.0020	1466.0023	150.0003	90.0002	-411.9998	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
235 RCC	1530.0030	-774.0020	1466.0023	150.0003	-90.0002	-411.9998	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
236 RCC	2753.0051	200.0004	1500.0029	-703.0011	264.9992	101.0010	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
237 RCC	2050.0040	465.0022	1601.0039	-550.0011	207.0007	-54.0006	
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
238 RCC	2753.0051	-540.0010	1500.0029	-703.0011	-70.0001	101.0010	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
239 RCC	2050.0040	-610.0012	1601.0039	-550.0011	-50.0001	-54.0006	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
240 ARB8	3988.0087	458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
	4296.0078	0.0000	723.0011	4296.0078	378.0017	723.0011	
	3987.1756	458.0019	862.1835	3987.1756	0.0000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	378.0017	721.1825	
241 ARB8	3988.0087	-458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
	4296.0078	0.0000	723.0011	4296.0078	-378.0017	723.0011	
	3987.1756	-458.0019	862.1835	3987.1756	0.0000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	-378.0017	721.1825	
242 ARB8	3988.0087	0.0000	864.0022	3988.0087	-458.0019	864.0022	HOOD
	3100.0060	-494.0015	1101.0029	3100.0060	0.0000	1101.0029	
	3987.4931	0.0000	862.0692	3987.4931	-458.0019	862.0692	
	3099.4904	-494.0015	1099.0699	3099.4904	0.0000	1099.0699	
243 ARB8	3988.0087	0.0000	864.0022	3988.0087	458.0019	864.0022	HOOD
	3100.0060	494.0015	1101.0029	3100.0060	0.0000	1101.0029	
	3987.4931	0.0000	862.0692	3987.4931	458.0019	862.0692	
	3099.4904	494.0015	1099.0699	3099.4904	0.0000	1099.0699	
244 ARB6	3988.0087	-337.0009	755.0027	4296.0078	-337.0009	723.0011	FEND INSD
	4295.8503	-338.2963	721.4848	3987.8513	-338.2963	753.4863	
	4247.0085	-454.0014	828.0026	4246.8510	-455.2968	826.4862	
245 ELL1	4220.0082	350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
	80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
246 RPP	4040.0078	4220.0082	170.0003	530.0010	683.0011	1053.0018	HEADLIGHT
247 ELL1	4220.0082	-350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
	80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
248 RPP	4040.0078	4220.0082	-530.0010	-170.0003	683.0011	1053.0018	HEADLIGHT
249 RCC	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	COLUMN
	20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
250	TOR	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	STR WHEEL
		190.0004	14.9988	0.0000	0.0000	0.0000	0.0000	
251	RPP	1341.0034	1666.0027	-893.0015	893.0015	1123.0019	1125.0034	TOP DECK F
252	RPP	1416.0022	1620.0031	326.0001	580.0011	453.0006	681.0021	BATTERY
253	RPP	1416.0022	1620.0031	589.0004	840.0016	453.0006	681.0021	BATTERY
254	RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
		330.0006	0.0000	0.0000	0.0000	0.0000	0.0000	MOUNT
255	RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
		300.0006	0.0000	0.0000	0.0000	0.0000	0.0000	MOUNT
256	BOX	3377.0068	-870.0017	937.0021	0.0000	168.0013	0.0000	RADIO SET
		-105.0015	0.0000	-314.9993	-358.0017	0.0000	119.3297	GRC 160
257	BOX	3377.0068	-650.0013	937.0021	0.0000	406.0003	0.0000	GUIDANCE
		-82.2201	0.0000	-240.3307	-380.0007	0.0000	130.0003	TOW SET
258	RCC	2448.0058	-420.0008	1610.0031	0.0000	0.0000	338.0017	TRAVERSE
		100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	UNIT
259	RPP	2363.0043	2533.0047	-504.9997	-334.9994	1720.0033	1948.0048	TRAVERSE
260	ARB8	2498.0059	-291.0013	1710.0033	2578.0060	-291.0013	1695.0046	TRAVERSE
		2578.0060	-291.0013	1950.0038	2498.0059	-291.0013	1950.0038	UNIT
		2498.0059	-548.0021	1710.0033	2578.0060	-548.0021	1695.0046	
		2578.0060	-548.0021	1950.0038	2498.0059	-548.0021	1950.0038	
261	ARB8	2398.0057	-291.0013	1710.0033	2318.0055	-291.0013	1695.0046	TRAVERSE
		2318.0055	-291.0013	1950.0038	2398.0057	-291.0013	1950.0038	UNIT
		2398.0057	-548.0021	1710.0033	2318.0055	-548.0021	1695.0046	
		2318.0055	-548.0021	1950.0038	2398.0057	-548.0021	1950.0038	
262	RCC	2448.0058	-535.0023	1885.0049	0.0000	-80.0002	0.0000	
		40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
263	SPH	2448.0058	-420.0008	1650.0032	1.0008	0.0000	0.0000	
264	SPH	2448.0058	-420.0008	1650.0032	1.0008	0.0000	0.0000	
265	RCC	1843.5647	-420.0008	1885.0049	638.0099	0.0000	0.0000	MSSLE S-IN
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
266	RCC	1843.5647	-420.0008	1885.0049	638.0099	0.0000	0.0000	MSSLE SKIN

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
267 TRC	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	2593.2715	-420.0008	1885.0049	202.5404	0.0000	0.0000	MISSILE SKIN
268 TRC	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	2593.2715	-420.0008	1885.0049	202.5404	0.0000	0.0000	MISSILE SKIN
269 RCC	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
	1843.5647	-420.0008	1885.0049	434.7227	0.0000	0.0000	LAUNCH
270 RCC	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	2481.5745	-420.0008	1885.0049	111.6969	0.0000	0.0000	FLIGHT
271 SPH	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	2536.4616	-420.0008	1885.0049	93.4571	0.0000	0.0000	FLIGHT MOTOR
272 RPP	2593.2715	2619.9416	-494.2072	-345.7944	1810.7985	1959.2088	FLIGHT MOTOR
273 RCC	2795.8119	-420.0008	1885.0049	147.9556	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
274 ELL1	2943.7674	-420.0008	1885.0049	98.4254	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
275 ELL1	2943.7674	-420.0008	1885.0049	95.8854	0.0000	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - INT
276 RCC	1800.0035	-420.0008	1885.0049	1285.7505	0.0000	0.0000	MISSILE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
277 RCC	1801.6291	-420.0008	1885.0049	1282.4993	0.0000	0.0000	MISSILE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
278 RCC	2341.4041	-134.0008	2018.0049	419.1017	0.0000	0.0000	SIGHT
	64.8973	0.0000	0.0000	0.0000	0.0000	0.0000	
279 RCC	2341.4041	-261.0013	2018.0049	419.1017	0.0000	0.0000	
	50.8002	0.0000	0.0000	0.0000	0.0000	0.0000	
280 RPP	2341.4041	2493.8047	-311.8015	-42.5604	1954.5047	2094.2052	
281 RAW	2366.8042	-311.8015	1953.1534	0.0000	177.8007	0.0000	
	0.0000	0.0000	-101.6004	152.4006	0.0000	0.0000	
282 RCC	2448.0058	-420.0008	1885.0049	640.0012	0.0000	0.0000	LAUNCHER
	84.0007	0.0000	0.0000	0.0000	0.0000	0.0000	OD
283 RCC	2448.0058	-420.0008	1885.0049	640.0012	0.0000	0.0000	LAUNCHER

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	81.0009	0.0000	0.0000	0.0000	0.0000	0.0000	ID
284 TRC	3088.0070	-420.0008	1885.0049	100.0002	0.0000	0.0000	LAUNCHER
	84.0007	77.0004	0.0000	0.0000	0.0000	0.0000	TAPER OD
285 TRC	3088.0070	-420.0008	1885.0049	100.0002	0.0000	0.0000	LAUNCHER
	81.0009	74.9989	0.0000	0.0000	0.0000	0.0000	TAPER ID
286 RCC	3188.0072	-420.0008	1885.0049	400.0008	0.0000	0.0000	LAUNCHER
	77.0004	0.0000	0.0000	0.0000	0.0000	0.0000	
287 RCC	3188.0072	-420.0008	1885.0049	400.0008	0.0000	0.0000	LAUNCHER
	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
288 RPP	2448.0058	2948.0067	-490.0009	-350.0007	1710.0033	1740.0034	LAUNCHER
289 REC	2371.4753	-548.0021	744.0629	-99.6014	0.0000	512.4115	BODY ARMOR
	0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	
290 REC	2371.4753	548.0021	744.0629	-99.6014	0.0000	512.4115	BODY ARMOR
	0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	
291 RCC	1966.0033	-656.0008	603.0009	141.0010	0.0000	0.0000	N S FRNT
	54.0006	0.0000	0.0000	0.0000	0.0000	0.0000	LENS HDS
292 RCC	2030.0039	-579.0004	553.0008	-218.0014	0.0000	0.0000	N S GAS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	BOTTLE
293 BOX	1778.0045	-686.0008	643.0010	0.0000	0.0000	-128.0013	N S
	0.0000	-71.0009	0.0000	-37.0003	0.0000	0.0000	BATTERY
294 RCC	1778.0045	-596.0006	598.0022	-97.0004	0.0000	0.0000	N S EYE
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	PIECE
295 BOX	1778.0045	-599.0004	512.0000	0.0000	0.0000	151.0011	N S CEN-
	0.0000	-138.0013	0.0000	188.0014	0.0000	0.0000	TER BODY
296 ARB8	1781.0042	-737.0017	653.0010	1781.0042	-767.0017	633.0010	N S BODY
	1781.0042	-767.0017	516.0005	1781.0042	-737.0017	516.0005	SIDE
	1963.0035	-737.0017	653.0010	1963.0035	-767.0017	633.0010	PIECE
	1963.0035	-767.0017	516.0005	1963.0035	-737.0017	516.0005	
297 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
298 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
299 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
300 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
301 RCC	1200.0023	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
302 RCC	1200.0023	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
303 SPH	1200.0023	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
304 BDX	1274.2087	43.2665	1293.7973	0.0000	26.6701	0.0000	FLHT MOTOR
	-148.4128	0.0000	0.0000	0.0000	0.0000	148.4128	MOTOR
305 RCC	1200.0023	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
306 ELL1	1200.0023	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
307 ELL1	1200.0023	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
308 RCC	1200.0023	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
309 RCC	1200.0023	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
310 RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
311 RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
312 TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
313 TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
314 RCC	1010.0020	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
315 RCC	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	1010.0020	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
316 SPH	1010.0020	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
317 BOX	1084.2083	-6.7336	1293.7973	0.0000	26.6701	0.0000	FLHT MOTOR
	-148.4128	0.0000	0.0000	0.0000	0.0000	148.4128	MOTOR
318 RCC	1010.0020	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
319 ELL1	1010.0020	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
320 ELL1	1010.0020	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
321 RCC	1010.0020	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
322 RCC	1010.0020	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
323 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
324 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
325 TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
326 TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
327 RCC	820.0016	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
328 RCC	820.0016	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
329 SPH	820.0016	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
330 BOX	894.2080	43.2665	1293.7973	0.0000	26.6701	0.0000	FLHT MOTOR
	-148.4128	0.0000	0.0000	0.0000	0.0000	148.4128	MOTOR

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
331 RCC	820.0016	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
332 ELL1	820.0016	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
333 ELL1	820.0016	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
334 RCC	820.0016	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
335 RCC	820.0016	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
336 RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
337 RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
338 TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
339 TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
340 RCC	630.0012	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
341 RCC	630.0012	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
342 SPH	630.0012	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
343 BOX	704.2076	-6.7336	1293.7973	0.0000	26.6701	0.0000	FLHT MOTOR
	-148.4128	0.0000	0.0000	0.0000	0.0000	148.4128	MOTOR
344 RCC	630.0012	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
345 ELL1	630.0012	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
346 ELL1	630.0012	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
347 RCC	630.0012	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
348 RCC	630.0012	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
349 TRC	2240.0043	-46.5000	816.0011	0.0000	0.0000	-364.0012	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
350 TRC	2240.0043	-221.5016	816.0011	0.0000	0.0000	-364.0012	LOW LEG RT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
351 TRC	2240.0043	-46.5000	1318.0036	0.0000	0.0000	-502.0000	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
352 TRC	2240.0043	-221.5016	1318.0036	0.0000	0.0000	-502.0000	UP LEG RT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
353 SPH	2240.0043	-46.5000	1318.0036	69.4998	0.0000	0.0000	HIP JNT LT
354 SPH	2240.0043	-221.5016	1318.0036	69.4998	0.0000	0.0000	HIP JNT RT
355 REC	2240.0043	-134.0008	1238.0034	0.0000	0.0000	160.0003	HIPS
	0.0000	157.0006	0.0000	102.9999	0.0000	0.0000	
356 REC	2240.0043	-134.0008	1398.0037	0.0000	0.0000	261.0013	TORSO LOW
	0.0000	145.0016	0.0000	107.0005	0.0000	0.0000	
357 REC	2240.0043	-134.0008	1658.0042	0.0000	0.0000	260.0005	TORSO UP
	0.0000	145.0016	0.0000	107.0005	0.0000	0.0000	
358 RCC	2240.0043	58.4990	1918.0047	0.0000	13.9904	-363.7320	UP ARM LT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
359 RCC	2240.0043	-326.5005	1918.0047	0.0000	-13.9904	-363.7320	UP ARM RT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
360 TRC	2240.0043	72.4893	1554.2728	0.0000	10.5309	-273.7978	LOW ARM LT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
361 TRC	2240.0043	-340.4909	1554.2728	193.7469	.5309	-193.7977	LOW ARM RT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
362 RCC	2240.0043	-134.0008	1918.0047	0.0000	0.0000	71.9991	NECK
	60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
363 ELL1	2240.0043	-134.0008	2038.0050	100.0002	0.0000	0.0000	HEAD

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
364 SPH	2240.0043	-46.5000	816.0011	66.0149	0.0000	0.0000	KNEE LT
365 SPH	2240.0043	-221.5016	816.0011	66.0149	0.0000	0.0000	KNEE RT
366 SPH	2240.0043	72.4893	1554.2702	42.4994	0.0000	0.0000	ELBOW LT
367 SPH	2240.0043	-340.4909	1554.2728	42.4994	0.0000	0.0000	ELBOW RT
368 SPH	2240.0043	-46.5000	400.0008	50.0001	0.0000	0.0000	ANKLE LT
369 SPH	2240.0043	-221.5016	400.0008	50.0001	0.0000	0.0000	ANKLE RT
370 REC	2240.0043	82.5198	1280.4825	0.0000	0.0000	-105.0015	HAND LEFT
	50.0001	0.0000	0.0000	0.0000	44.9988	0.0000	
371 REC	2433.7512	-340.4909	1360.5259	74.2470	0.0000	-74.0007	HAND RIGHT
	35.0013	0.0000	35.0013	0.0000	44.9988	0.0000	
372 SPH	2240.0043	55.9996	1868.0046	50.0001	0.0000	0.0000	SHLD JNT L
373 SPH	2240.0043	-324.0011	1868.0046	50.0001	0.0000	0.0000	SHLD JNT R
374 RCC	1316.0020	-231.0012	550.0011	-200.0004	0.0000	0.0000	STARTER
	60.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
375 RCC	1081.0029	-231.0012	550.0011	0.0000	0.0000	-130.0003	STARTER
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
376 RCC	1081.0029	-231.0012	420.0008	334.9994	557.0013	0.0000	STARTER
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
377 RCC	801.0023	228.9997	799.0008	0.0000	0.0000	-369.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
378 RCC	801.0023	228.9997	430.0008	2916.7468	105.0015	0.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
379 RCC	3717.7568	334.0012	430.0008	0.0000	0.0000	258.9997	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
380 RCC	1843.5647	-697.0016	1885.0049	638.0099	0.0000	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
381 RCC	1843.5647	-697.0016	1885.0049	638.0099	0.0000	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
382 TRC	2593.2715	-697.0016	1885.0049	202.5404	0.0000	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR

TABLE A-1. SOLID DATA FOR BASELINE XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
383 TRC	2593.2715	-697.0016	1885.0049	202.5404	0.0000	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
384 RCC	1843.5647	-697.0016	1885.0049	434.7227	0.0000	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
385 RCC	2481.5745	-697.0016	1885.0049	111.6969	0.0000	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
386 SPH	2536.4616	-697.0016	1885.0049	93.4571	0.0000	0.0000	FLHT MOTOR
387 RPP	2593.2715	2619.9416	-771.2080	-622.7952	1810.7985	1959.2088	FLHT MOTOR
388 RCC	2795.8119	-697.0016	1885.0049	147.9556	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
389 ELL1	2943.7674	-697.0016	1885.0049	98.4254	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
390 ELL1	2943.7674	-697.0016	1885.0049	95.8854	0.0000	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
391 RCC	1800.0035	-697.0016	1885.0049	1285.7505	0.0000	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
392 RCC	1801.6291	-697.0016	1885.0049	1282.4993	0.0000	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
393 RCC	1300.0025	700.0014	1362.0016	-160.0003	0.0000	0.0000	TRIPOD
	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	CENTRE
394 RCC	1140.0022	659.0005	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
395 RCC	1140.0022	700.0014	1410.0027	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
396 RCC	1140.0022	743.0012	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
397 REC	2240.0043	-134.0008	1398.0037	0.0000	0.0000	520.0010	ARMOR VEST
	0.0000	157.6991	0.0000	119.7005	0.0000	0.0000	

TABLE A-2. REGION DATA FOR BASELINE XR311

REG NUM	REGION COMBINATION DATA										REMARKS
1 OR	1 OR	2 OR	3	0	0	0	0	0	0	0	0 SUMP
2	4	-35	C	0	0	0	0	0	0	0	0 BLOCK
3 OR	5 OR	6	-106	0	0	0	0	0	0	0	0 MANIFOLD
4	7	0	0	0	0	0	0	0	0	0	0 CARB
5	8	-14	0	0	0	0	0	0	0	0	0 OIL FILT
6	9	0	0	0	0	0	0	0	0	0	0 PUMP H2O
7	10	0	0	0	0	0	0	0	0	0	0 AIR FILT
8	11	0	0	0	0	0	0	0	0	0	0 PUMP GAS
9	12	0	0	0	0	0	0	0	0	0	0 GAS FILT
10	13	-106	0	0	0	0	0	0	0	0	0 RADIATOR
11	16	-8	-17	-100	0	0	0	0	0	0	0 TRANS ADP
12 OR	18 OR	19 OR	20 OR	21 OR	14	-15	-100	0	0	0	0 TRANS
13 OR	22 OR	23 OR	24 OR	25	0	0	0	0	0	0	0
14	26	0	0	0	0	0	0	0	0	0	0
15	27	0	0	0	0	0	0	0	0	0	0
16	28	-29	-26	0	0	0	0	0	0	0	0
17	30	0	0	0	0	0	0	0	0	0	0
18	31	0	C	0	0	0	0	0	0	0	0
19	32	0	0	0	0	0	0	0	0	0	0
20	33	0	0	0	0	0	0	0	0	0	0
21	34	0	C	0	0	0	0	0	0	0	0
22	35	0	0	0	0	0	0	0	0	0	0
23	36	0	0	0	0	0	0	0	0	0	0
24	37	0	0	0	0	0	0	0	0	0	0
25	38	0	0	0	0	0	0	0	0	0	0
26	39	0	0	0	0	0	0	0	0	0	0
27 OR	40 OR	41 OR	42 OR	43	-99	0	0	0	0	0	0
28	44	0	0	0	0	0	0	0	0	0	0
29	45	0	C	0	0	0	0	0	0	0	0
30	48	-49	0	0	0	0	0	0	0	0	0 TIRE
31	49	-46	-47	-51	-52	-53	-54	-55			0 WHEEL

TABLE A-2. REGION DATA FOR BASELINE XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
32	58	-59	0	0	0	0	0	0	0	0 TIRE
33	59	-56	-57	-61	-62	-63	-64	-65	0	0 WHEEL
34	68	-69	0	0	0	0	0	0	0	0 TIRE
35	69	-66	-67	-71	-72	-73	-74	-75	0	0 WHEEL
36	78	-79	0	0	0	0	0	0	0	0 TIRE
37	79	-76	-77	-81	-82	-83	-84	-85	0	0 WHEEL
38	86	87	-7	-10	-34	-5	0	0	0	0 AIR HOSE
39	88	-112	-18	-19	-20	-21	-91	-92	-100	FLW
40	OR 89	OR 90	-16	GR 92	OR 91	-16	-100	0	0	0 BULKHD
41	93	-94	0	0	0	0	0	0	0	0 TRANS COVER
42	95	-96	-27	-112	0	0	0	0	0	0 TRANS COVER
43	97	0	0	0	0	0	0	0	0	0 TRANS COVER
44	98	0	0	0	0	0	0	0	0	0 TRANS U JNT
45	99	0	0	0	0	0	0	0	0	0 TRANS U JNT
46	100	-101	0	0	0	0	0	0	0	0 REAR PROP
47	102	0	0	0	0	0	0	0	0	0 U-JOINT
48	103	0	0	0	0	0	0	0	0	0 U-JOINT
49	104	-44	0	0	0	0	0	0	0	0 REAR AXLE
50	105	0	0	0	0	0	0	0	0	0 REAR AXLE
51	106	107	0	0	0	0	0	0	0	0 H2O HOSE
52	50	0	0	0	0	0	0	0	0	0 DISC BRAKE
53	60	-39	0	0	0	0	0	0	0	0 DISC BRAKE
54	70	0	0	0	0	0	0	0	0	0 DISC BRAKE
55	80	-103	0	0	0	0	0	0	0	0 DISC BRAKE
56	114	112	-113	0	0	0	0	0	0	0 TUNNEL
57	108	0	0	0	0	0	0	0	0	0 SEAT
58	109	0	0	0	0	0	0	0	0	0 SEAT
59	110	0	0	0	0	0	0	0	0	0 SEAT
60	111	0	0	0	0	0	0	0	0	0 SEAT
61	115	-117	-130	-134	0	0	0	0	0	0 LOW LEG LT
62	116	-118	-131	-135	0	0	0	0	0	0 LOW LEG RT

TABLE A-2. REGION DATA FOR BASELINE XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
63	117	-130	-119	-121	0	0	0	0	0	0 UP LEG LT
64	118	-131	-120	-121	0	0	0	0	0	0 UP LEG RT
65	119	0	0	0	0	0	0	0	0	0 HIP JNT LT
66	120	0	0	0	0	0	0	0	0	0 HIP JNT RT
67	121	-119	-120	-122	0	0	0	0	0	0 HIPS
68	122	-123	0	0	0	0	0	0	0	0 TORSO LOW
69	123	0	0	0	0	0	0	0	0	0 TORSO UP
70	124	-132	-126	-138	0	0	0	0	0	0 ARM UP LT
71	125	-133	-127	-139	0	0	0	0	0	0 ARM UP RT
72	126	-132	0	0	0	0	0	0	0	0 ARM LOW LT
73	127	-133	0	0	0	0	0	0	0	0 ARM LOW RT
74	128	-123	0	0	0	0	0	0	0	0 NECK
75	129	-128	0	0	0	0	0	0	0	0 HEAD
76	130	0	0	0	0	0	0	0	0	0 KNEE LT
77	131	0	0	0	0	0	0	0	0	0 KNEE RT
78	132	0	0	0	0	0	0	0	0	0 ELBOW LT
79	133	0	0	0	0	0	0	0	0	0 ELBOW RT
80	134	0	0	0	0	0	0	0	0	0 ANKLE LT
81	135	0	0	0	0	0	0	0	0	0 ANKLE RT
82	136	-126	0	0	0	0	0	0	0	0 HAND LEFT
83	137	-127	-250	0	0	0	0	0	0	0 HAND RT
84	138	-123	0	0	0	0	0	0	0	0 SHLD JNT L
85	139	-123	0	0	0	0	0	0	0	0 SHLD JNT R
86	OR 166	OR 167	OR 168	OR 169	0	0	0	0	0	0 FUEL CELL
87	141	-143	-156	-160	0	0	0	0	0	0 LOW LEG LT
88	142	-144	-157	-161	0	0	0	0	0	0 LOW LEG RT
89	143	-156	-145	-147	0	0	0	0	0	0 UP LEG LT
90	144	-157	-146	-147	0	0	0	0	0	0 UP LEG RT
91	145	0	0	0	0	0	0	0	0	0 HIP JNT LT
92	146	0	0	0	0	0	0	0	0	0 HIP JNT RT
93	147	-145	-146	-148	0	0	0	0	0	0 HIPS

TABLE A-2. REGION DATA FOR BASELINE XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA										REMARKS
94	148	-149	0	0	0	0	0	0	0	0	TORSO LOW
95	149	0	0	0	0	0	0	0	0	0	TORSO UP
96	150	-158	-152	-164	0	0	0	0	0	0	ARM UP LT
97	151	-159	-153	-165	0	0	0	0	0	0	ARM UP RT
98	152	-158	0	0	0	0	0	0	0	0	ARM LOW LT
99	153	-159	0	0	0	0	0	0	0	0	ARM LOW RT
100	154	-149	0	0	0	0	0	0	0	0	NECK
101	155	-154	0	0	0	0	0	0	0	0	HEAD
102	156	0	0	0	0	0	0	0	0	0	KNEE LT
103	157	0	0	0	0	0	0	0	0	0	KNEE RT
104	158	0	0	0	0	0	0	0	0	0	ELBOW LT
105	159	0	0	0	0	0	0	0	0	0	ELBOW RT
106	160	0	0	0	0	0	0	0	0	0	ANKLE LT
107	161	0	0	0	0	0	0	0	0	0	ANKLE RT
108	162	-152	0	0	0	0	0	0	0	0	HAND LEFT
109	163	-153	0	0	0	0	0	0	0	0	HAND RIGHT
110	164	-149	0	0	0	0	0	0	0	0	SHLD JNT L
111	0	0	0	0	0	0	0	0	0	0	DUMMY
112	165	-149	0	0	0	0	0	0	0	0	SHLD JNT R
113 OR	170 OR	172 OR	174 OR	176 OR	178 OR	180 OR	243 OR	240	-170	0	FT TOP LF
114	181	-218	0	0	0	0	0	0	0	0	F BUMPER
115 OR	202 OR	184 OR	186 OR	188 OR	190 OR	192 OR	198 OR	200 OR	182	0	LEFT SIDE
	-180	0	0	0	0	0	0	0	0	0	
116 OR	203 OR	185 OR	187 OR	189 OR	191 OR	193 OR	199 OR	201 OR	183	0	RIGHT SIDE
	-179	0	0	0	0	0	0	0	0	0	
117	194	-192	-88	-214	-92	0	0	0	0	0	ROCKER LFT
118	195	-193	-88	-215	-92	0	0	0	0	0	ROCKER RGT
119	196	-197	0	0	0	0	0	0	0	0	REAR BUMPER
120 OR	206 OR	207 OR	204	-202 OR	205	-203	0	0	0	0	R SHT MET
121 OR	208 OR	209 OR	210 OR	211 OR	212 OR	213	0	0	0	0	FLOOR SKID
122 OR	214 OR	215 OR	217	-28 OR	216	-28	0	0	0	0	BULKHEAD

TABLE A-2. REGION DATA FOR BASELINE XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA										REMARKS
123	219	-220	0	0	0	0	0	0	0	0	0 ENG DECK
124	221	223	0	0	0	0	0	0	0	0	0 ROLL BAR
125	222	224	0	0	0	0	0	0	0	0	0 ROLL BAR
126	226	-223	0	0	0	0	0	0	0	0	0 ROLL BAR
127	227	-224	0	0	0	0	0	0	0	0	0 ROLL BAR
128 OR	228 OR	225 OR	236 OR	238 OR	233 OR	239 OR	237	-231			0 ROLL TOP
129	229	231	-233	0	0	0	0	0			0 ROLL BAR RR
130	230	232	-233	-239	0	0	0	0			0 ROLL BAR RR
131 OR	244 OR	171 OR	173 OR	175 OR	177 OR	179 OR	242 OR	241	-244		FT TOP RT
132	234	0	0	0	0	0	0	0			0 ROLL BAR RR
133	235	0	0	0	0	0	0	0			0 ROLL BAR RR
134	245	246	0	0	0	0	0	0			0 HEADLIGHT
135	247	248	0	0	0	0	0	0			0 HEADLIGHT
136	249	0	0	0	0	0	0	0			0 STEERING C
137	250	0	0	0	0	0	0	0			0 STEERING W
138	251	-235	-234	0	0	0	0	0			0 ENG TP DC
139	252	0	0	0	0	0	0	0			0 BATTERY
140	253	0	0	0	0	0	0	0			0 BATTERY
141	254	-255	0	0	0	0	0	0			0 TOW RING
142	256	0	0	0	0	0	0	0			0 GRC160 RADI
143	257	0	0	0	0	0	0	0			0 GUIDANCE
144 OR	262 OR	258	-259	-260	-261	0	0	0			0 TOW MOUNT
145 OR	265	-266 OR	267	-268	-271	0	0	0			0 MISSILE SKN
146	269	0	0	0	0	0	0	0			0 LAUNCH MOTR
147 OR	270 OR	271	272	0	0	0	0	0			0 FLIGHT MOTR
148	274	-273	-275	0	0	0	0	0			0 WARHEAD NSE
149 OR	268	-272 OR	273	0	0	0	0	0			0 WARHEAD
150	266	-269	0	0	0	0	0	0			0 MISCL - AFT
151	276	-277	0	0	0	0	0	0			0 MISSILE CAS
152 OR	278 OR	279 OR	280 OR	281	0	0	0	0			0 SIGHT
153	282	-283	-288	0	0	0	0	0			0 LAUNCHER

TABLE A-2. REGION DATA FOR BASELINE XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
154	284	-285	0	0	0	0	0	0	0	0 LAUNCHER
155	286	-287	0	0	0	0	0	0	0	0 LAUNCHER
156	289	-148	-149	-154	-164	-165	-150	-151	0	0 BODY ARMOR
	-158	-159	-152	-153	0	0	0	0	0	0
157	290	-122	-123	-128	-138	-139	-124	-125	0	0 BODY ARMOR
	-132	-133	-126	-127	0	0	0	0	0	0
158 OR	291 OR	292 OR	293 OR	294 OR	295 OR	296	0	0	0	0 NIGHT SIGH
159 OR	297	-298 OR	299	-300	-303	0	0	0	0	0 MISSILE SKN
160	301	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
161 OR	302 OR	303	304	0	0	0	0	0	0	0 FLIGHT MOTR
162	306	-305	-307	0	0	0	0	0	0	0 WARHEAD NSE
163 OR	300	-304 OR	305	0	0	0	0	0	0	0 WARHEAD
164	298	-301	0	0	0	0	0	0	0	0 MISCL - AFT
165	308	-309	0	0	0	0	0	0	0	0 MISSILE CAS
166 OR	310	-311 OR	312	-313	-316	0	0	0	0	0 MISSILE SKN
167	314	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
168 OR	315 OR	316	317	0	0	0	0	0	0	0 FLIGHT MOTR
169	319	-318	-320	0	0	0	0	0	0	0 WARHEAD NSE
170 OR	313	-317 OR	318	0	0	0	0	0	0	0 WARHEAD
171	311	-314	0	0	0	0	0	0	0	0 MISCL - AFT
172	321	-322	0	0	0	0	0	0	0	0 MISSILE CAS
173 OR	323	-324 OR	325	-326	-329	0	0	0	0	0 MISSILE SKN
174	327	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
175 OR	328 OR	329	330	0	0	0	0	0	0	0 FLIGHT MOTR
176	332	-331	-333	0	0	0	0	0	0	0 WARHEAD NSE
177 OR	326	-330 OR	331	0	0	0	0	0	0	0 WARHEAD
178	324	-327	0	0	0	0	0	0	0	0 MISCL - AFT
179	334	-335	0	0	0	0	0	0	0	0 MISSILE CAS
180 OR	336	-337 OR	338	-339	-342	0	0	0	0	0 MISSILE SKN
181	340	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
182 OR	341 OR	342	343	0	0	0	0	0	0	0 FLIGHT MOTR

TABLE A-2. REGION DATA FOR BASELINE XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
183	345	-344	-346	0	0	0	0	0	0	0 WARHEAD NSE
184	OR 339	-343	OR 344	0	0	0	0	0	0	0 WARHEAD
185	337	-340	0	0	0	0	0	0	0	0 MISCL - AFT
186	347	-348	0	0	0	0	0	0	0	0 MISSILE CAS
187	349	-351	-364	-368	-95	-93	0	0	0	0 LOW LEG LT
188	350	-352	-365	-369	0	0	0	0	0	0 LOW LEG RT
189	351	-364	-353	-355	0	0	0	0	0	0 UP LEG LT
190	352	-365	-354	-355	0	0	0	0	0	0 UP LEG RT
191	353	0	0	0	0	0	0	0	0	0 HIP JNT LT
192	354	0	0	0	0	0	0	0	0	0 HIP JNT RT
193	355	-353	-354	-356	0	0	0	0	0	0 HIPS
194	356	-357	0	0	0	0	0	0	0	0 TORSO LOW
195	357	0	0	0	0	0	0	0	0	0 TORSO UP
196	358	-366	-360	-372	0	0	0	0	0	0 ARM UP LT
197	359	-367	-361	-373	-276	0	0	0	0	0 ARM UP RT
198	360	-366	0	0	0	0	0	0	0	0 ARM LOW LT
199	361	-367	0	0	0	0	0	0	0	0 ARM LOW RT
200	362	-357	0	0	0	0	0	0	0	0 NECK
201	363	-362	0	0	0	0	0	0	0	0 HEAD
202	364	-93	0	0	0	0	0	0	0	0 KNEE LT
203	365	0	0	0	0	0	0	0	0	0 KNEE RT
204	366	0	0	0	0	0	0	0	0	0 ELBOW LT
205	367	0	0	0	0	0	0	0	0	0 ELBOW RT
206	368	0	0	0	0	0	0	0	0	0 ANKLE LT
207	369	0	0	0	0	0	0	0	0	0 ANKLE RT
208	370	-360	0	0	0	0	0	0	0	0 HAND LT
209	371	-361	0	0	0	0	0	0	0	0 HAND RT
210	372	-357	0	0	0	0	0	0	0	0 SHLD JNT L
211	373	-357	-276	0	0	0	0	0	0	0 SHLD JNT
212	374	0	0	0	0	0	0	0	0	0 STARTER
213	OR 375	OR 376	0	0	0	0	0	0	0	0 CABLE

TABLE A-2. REGION DATA FOR BASELINE XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA										REMARKS
214 OR	377 OR	378 OR	379	0	0	0	0	0	0	0	0 GAS LN
215 OR	380	-381 OR	382	-383	-386	0	0	0	0	0	0 MISSILE SKN
216	384	0	0	0	0	0	0	0	0	0	0 LAUNCH MOT
217 OR	385 OR	386	387	0	0	0	0	0	0	0	0 FLIGHT MOT
218	389	-388	-390	0	0	0	0	0	0	0	0 WARHEAD NOS
219 OR	383	-387 OR	388	0	0	0	0	0	0	0	0 WARHEAD
220	381	-384	0	0	0	0	0	0	0	0	0 MISCL AFT
221	391	-392	0	0	0	0	0	0	0	0	0 MISSILE CAS
222 OR	393 OR	394 OR	395 OR	396	0	0	0	0	0	0	0 TRIPOD
223	397	-356	-357	-358	-359	-360	-361	-362	0	0	0
	-366	-367	-372	-373	0	0	0	0	0	0	0

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
1	9701	0	OIL SUMP	1	2
2	9702	0	ENGINE BLOCK	4	55
3	9703	0	INTAKE MANIFOLD	4	20
4	9704	0	CARBURATOR	5	50
5	9705	0	OIL FILTER	1	2
6	9706	0	WATER PUMP	4	30
7	9707	0	AIR FILTER	1	2
8	9708	0	FUEL PUMP	5	30
9	9709	0	FUEL FILTER	5	5
10	9710	0	ENGINE RADIATOR	7	15
11	9711	0	TRAN HOUSEING (HOLLOW)	4	90
12	9712	0	AUTOMATIC TRANSMISSION	5	40
13	9713	0	FRONT DIFFERENTIAL	1	50
14	9714	0	FNT PROPELLER SHAFT U-JOINT	1	55
15	9715	0	FNT TRANSMISSION U-JOINT	1	55
16	9716	0	FNT PROPELLER SHAFT (HOLLOW)	1	15
17	9717	0	LEFT FNT DIFFERENTIAL U-JOINT	1	55
18	9718	0	RIGHT FNT DIFFERENTIAL U-JOINT	1	55
19	9719	0	LEFT ROCKER ARM COVER	1	2
20	9720	0	RIGHT ROCKER ARM COVER	1	2
21	9721	0	DISTRIBUTOR	5	30
22	9722	0	IGNITION COIL	1	5
23	9723	0	LEFT FRONT AXLE	1	100
24	9724	0	LEFT FNT WHEEL U-JOINT	1	55
25	9725	0	RIGHT FRONT AXLE	1	100
26	9726	0	RIGHT FNT WHEEL U-JOINT	1	55
27	9727	0	REAR DIFFERENTIAL	1	50
28	9728	0	REAR LEFT DIFFERENTIAL U-JOINT	1	55
29	9729	0	REAR RIGHT DIFFERENTIAL U-JOINT	1	55
30	8737	0	TIRE	18	25
31	9737	0	WHEEL	1	50

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
32	8737	0	TIRE	18	25
33	9737	0	WHEEL	1	50
34	8737	0	TIRE	18	25
35	9737	0	WHEEL	1	50
36	8737	0	TIRE	18	25
37	9737	0	WHEEL	1	50
38	8704	0	AIR CLEANER HOSE	18	5
39	9112	0	CHASSIS BODY FLOOR	1	49
40	9113	0	ENGINE COMPARTMENT BULKHEAD	1	100
41	9114	0	TRANSMISSION COVER	1	49
42	9114	0	TRANSMISSION COVER	1	49
43	9114	0	TRANSMISSION COVER TOP	1	49
44	9730	0	TRANSMISSION REAR U-JOINT	1	55
45	9731	0	REAR DIFFERENTIAL U-JOINT	1	55
46	9736	0	REAR PROP	1	15
47	9732	0	REAR WHEEL U-JOINT	1	55
48	9733	0	REAR WHEEL U-JOINT	1	55
49	9734	0	REAR AXLE	1	100
50	9735	0	REAR AXLE	1	100
51	9651	0	RADIATOR WATER HOSE	18	5
52	9402	0	DISC BRAKE ROTOR	1	100
53	9403	0	DISC BRAKE ROTOR	1	100
54	9404	0	DISC BRAKE ROTOR	1	100
55	9405	0	DISC BRAKE ROTOR	1	100
56	9756	0	DRIVE TRAIN TUNNEL	1	49
57	9752	0	SEAT	18	100
58	9752	0	SEAT	18	100
59	9752	0	SEAT	18	100
60	9752	0	SEAT	18	100
61	9810	0	LOWER LEG LEFT DRIVER	28	100
62	9811	0	LOWER LEG RIGHT DRIVER	28	100

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
63	9812	0	UPPER LEG LEFT	DRIVER	28	100
64	9813	0	UPPER LEG RIGHT	DRIVER	28	100
65	9814	0	HIP JOINT LEFT	DRIVER	28	100
66	9815	0	HIP JOINT RIGHT	DRIVER	28	100
67	9816	0	HIPS	DRIVER	28	100
68	9817	0	TORSO LOWER	DRIVER	28	100
69	9818	0	TORSO CHEST	DRIVER	28	100
70	9819	0	UPPER ARM LEFT	DRIVER	28	100
71	9820	0	UPPER ARM RIGHT	DRIVER	28	100
72	9821	0	LOWER ARM LEFT	DRIVER	28	100
73	9822	0	LOWER ARM RIGHT	DRIVER	28	100
74	9823	0	NECK	DRIVER	28	100
75	9824	0	HEAD	DRIVER	28	100
76	9825	0	KNEE LEFT	DRIVER	28	100
77	9826	0	KNEE RIGHT	DRIVER	28	100
78	9827	0	ELBOW LEFT	DRIVER	28	100
79	9828	0	ELBOW RIGHT	DRIVER	28	100
80	9829	0	ANKLE LEFT	DRIVER	28	100
81	9830	0	ANKLE RIGHT	DRIVER	28	100
82	9831	0	HAND LEFT	DRIVER	28	100
83	9832	0	HAND RIGHT	DRIVER	28	100
84	9833	0	SHOULDER JOINT LEFT	DRIVER	28	100
85	9834	0	SHOULDER JOINT RIGHT	DRIVER	28	100
86	9760	0	FUEL CELL		13	5
87	8910	0	LOWER LEG LEFT	LOADER	28	100
88	8911	0	LOWER LEG RIGHT	LOADER	28	100
89	8912	0	UPPER LEG LEFT	LOADER	28	100
90	8913	0	UPPER LEG RIGHT	LOADER	28	100
91	8914	0	HIP JOINT LEFT	LOADER	28	100
92	8915	0	HIP JOINT RIGHT	LOADER	28	100
93	8916	0	HIPS	LOADER	28	100

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
94	8917	0	TORSO LOWER	LOADER	28	100
95	8918	0	TORSO CHEST	LOADER	28	100
96	8919	0	UPPER ARM LEFT	LOADER	28	100
97	8920	0	UPPER ARM RIGHT	LOADER	28	100
98	8921	0	LOWER ARM LEFT	LOADER	28	100
99	8922	0	LOWER ARM RIGHT	LOADER	28	100
100	8923	0	NECK	LOADER	28	100
101	8924	0	HEAD	LOADER	28	100
102	8925	0	KNEE LEFT	LOADER	28	100
103	8926	0	KNEE RIGHT	LOADER	28	100
104	8927	0	ELBOW LEFT	LOADER	28	100
105	8928	0	ELBOW RIGHT	LOADER	28	100
106	8929	0	ANKLE LEFT	LOADER	28	100
107	8930	0	ANKLE RIGHT	LOADER	28	100
108	8931	0	HAND LEFT	LOADER	28	100
109	8932	0	HAND RIGHT	LOADER	28	100
110	8933	0	SHOULDER JOINT LEFT	LOADER	28	100
111	0	0	DUMMY		0	0
112	8934	0	SHOULDER JOINT RIGHT	LOADER	28	100
113	9101	0	XR 311 FRONT SHEET METAL TOP		1	49
114	9102	0	FRONT BUMBER		1	100
115	9103	0	SHEET METAL LEFT SIDE		1	49
116	9104	0	SHEET METAL RIGHT SIDE		1	49
117	9105	0	LEFT ROCKER PANEL		1	49
118	9105	0	RIGHT ROCKER PANEL		1	49
119	9102	0	REAR BUMBER		1	100
120	9106	0	REAR SHEET METAL		1	49
121	9109	0	FLOOR SKID		1	100
122	9107	0	FORWARD BULKHEAD		1	100
123	9108	0	ENGINE DECK SHEET METAL		1	49
124	9149	0	ROLL BAR CORNER		1	17

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
125	9150	0	ROLL BAR CORNER	1	17
126	9151	0	ROLL BAR SIDE	1	17
127	9152	0	ROLL BAR SIDE	1	17
128	9153	0	ROLL BAR CENTRE AND TOP	1	17
129	9154	0	REAR ROLL BAR CORNER	1	17
130	9155	0	REAR ROLL BAR CORNER	1	17
131	9156	0	FRONT HOOD	1	49
132	9157	0	REAR ROLL BAR SIDE	1	17
133	9158	0	REAR ROLL BAR SIDE	1	17
134	9761	0	HEADLIGHT	1	2
135	9761	0	HEADLIGHT	1	2
136	9762	0	STEERING COLUMN	1	15
137	8762	0	STEERING WHEEL	18	100
138	9115	0	FRONT TOP ENGINE DECK	1	49
139	9763	0	BATTERY	8	38
140	9763	0	BATTERY	8	38
141	9641	0	TOW RING MOUNT	1	55
142	9642	0	RADIO GRC 160	1	24
143	9643	0	TOW GUIDANCE SET	5	21
144	9406	0	TOW TRAVERSE MOUNT	5	60
145	7300	0	MISSILE SKIN	5	100
146	7301	0	LAUNCH MOTOR	2	32
147	7302	0	FLIGHT MOTOR SECTION	2	23
148	7303	0	WARHEAD NOSE	5	100
149	7304	0	WARHEAD SECTION	5	55
150	7305	0	MISCELLANEOUS COMPONENTS	5	23
151	7306	0	MISSILE CASE	16	99
152	9500	0	DAY SIGHT	5	40
153	9510	0	TOW LAUNCHER TUBE	5	99
154	9511	0	TOW LAUNCHER TUBE	5	99
155	9512	0	TOW LAUNCHER TUBE	5	99

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
156	9801	0	CREW BODY ARMOR	12	99
157	9801	0	CREW BODY ARMOR	12	99
158	9802	0	NIGHT SIGHT (STOWED)	5	80
159	9300	0	MISSILE SKIN	5	100
160	9301	0	LAUNCH MOTOR	2	32
161	9302	0	FLIGHT MOTOR SECTION	2	23
162	9303	0	WARHEAD NOSE	5	100
163	9304	0	WARHEAD SECTION	5	55
164	9305	0	MISCELLANEOUS COMPONENTS	5	23
165	9306	0	MISSILE CASE	16	99
166	9300	0	MISSILE SKIN	5	100
167	9301	0	LAUNCH MOTOR	2	32
168	9302	0	FLIGHT MOTOR SECTION	2	23
169	9303	0	WARHEAD NOSE	5	100
170	9304	0	WARHEAD SECTION	5	55
171	9305	0	MISCELLANEOUS COMPONENTS	5	23
172	9306	0	MISSILE CASE	16	99
173	9300	0	MISSILE SKIN	5	100
174	9301	0	LAUNCH MOTOR	2	32
175	9302	0	FLIGHT MOTOR SECTION	2	23
176	9303	0	WARHEAD NOSE	5	100
177	9304	0	WARHEAD SECTION	5	55
178	9305	0	MISCELLANEOUS COMPONENTS	5	23
179	9306	0	MISSILE CASE	16	99
180	9300	0	MISSILE SKIN	5	100
181	9301	0	LAUNCH MOTOR	2	32
182	9302	0	FLIGHT MOTOR SECTION	2	23
183	9303	0	WARHEAD NOSE	5	100
184	9304	0	WARHEAD SECTION	5	55
185	9305	0	MISCELLANEOUS COMPONENTS	5	23
186	9306	0	MISSILE CASE	16	99

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
187	8810	0	LOWER LEG LEFT	GUNNER	28	100
188	8811	0	LOWER LEG RIGHT	GUNNER	28	100
189	8812	0	UPPER LEG LEFT	GUNNER	28	100
190	8813	0	UPPER LEG RIGHT	GUNNER	28	100
191	8814	0	HIP JOINT LEFT	GUNNER	28	100
192	8815	0	HIP JOINT RIGHT	GUNNER	28	100
193	8816	0	HIPS	GUNNER	28	100
194	8817	0	TORSO LOWER	GUNNER	28	100
195	8818	0	TORSO CHEST	GUNNER	28	100
196	8819	0	UPPER ARM LEFT	GUNNER	28	100
197	8820	0	UPPER ARM RIGHT	GUNNER	28	100
198	8821	0	LOWER ARM LEFT	GUNNER	28	100
199	8822	0	LOWER ARM RIGHT	GUNNER	28	100
200	8823	0	NECK	GUNNER	28	100
201	8824	0	HEAD	GUNNER	28	100
202	8825	0	KNEE LEFT	GUNNER	28	100
203	8826	0	KNEE RIGHT	GUNNER	28	100
204	8827	0	ELBOW LEFT	GUNNER	28	100
205	8828	0	ELBOW RIGHT	GUNNER	28	100
206	8829	0	ANKLE LEFT	GUNNER	28	100
207	8830	0	ANKLE RIGHT	GUNNER	28	100
208	8831	0	HAND LEFT	GUNNER	28	100
209	8832	0	HAND RIGHT	GUNNER	28	100
210	8833	0	SHOULDER JOINT LEFT	GUNNER	28	100
211	8834	0	SHOULDER JOINT RIGHT	GUNNER	28	100
212	9738	0	STARTER MOTOR		1	45
213	9739	0	STARTER CABLE		7	99
214	9740	0	GAS LINES		1	20
215	8300	0	MISSILE SKIN	(READY)	5	100
216	8301	0	LAUNCH MOTOR	(READY)	2	32
217	8302	0	FLIGHT MOTOR SECTION	(READY)	2	23

TABLE A-3. REGIONS IDENTIFICATION FOR BASELINE XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
218	8303	0	WARHEAD NOSE (READY)	5	100
219	8304	0	WARHEAD SECTION (READY)	5	55
220	8305	0	MISCELLANEOUS COMPONENTS (READY)	5	23
221	8306	0	MISSILE CASE	16	99
222	8307	0	TOW TRIPOD	5	60
223	9801	0	BODY ARMOR	12	99

APPENDIX B

OPTION 1 XR311-TOW DESCRIPTION LISTING

TABLE B-1. SOLID DATA FOR OPTION 1 XR311

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
1 ARB8	983.0017	-54.9988	434.0013	983.0017	-170.0003	434.0013	
	983.0017	-170.0003	597.0014	983.0017	-30.0001	574.9998	
	1271.0032	-54.9988	434.0013	1271.0032	-170.0003	434.0013	
	1271.0032	-170.0003	597.0014	1271.0032	-30.0001	574.9998	
2 ARB8	983.0017	-30.0001	574.9998	983.0017	-170.0003	597.0014	
	983.0017	-74.9989	651.0020	983.0017	145.9998	574.9998	
	1271.0032	-30.0001	574.9998	1271.0032	-170.0003	597.0014	
	1271.0032	-74.9989	651.0020	1271.0032	145.9998	574.9998	
3 ARB8	983.0017	145.9998	574.9998	983.0017	-74.9989	651.0020	
	983.0017	-74.9989	714.0019	983.0017	145.9998	714.0019	
	1271.0032	145.9998	574.9998	1271.0032	-74.9989	651.0020	
	1271.0032	-74.9989	714.0019	1271.0032	145.9998	714.0019	
65 4 ARS	4	9	0				
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	0.0000	0.0000	0.0000	
	831.0024	161.9993	714.0019	831.0024	286.0000	991.0027	
	831.0024	180.0003	1041.0028	831.0024	134.9990	991.0027	
	831.0024	-54.9988	991.0027	831.0024	-105.9997	1041.0028	
	831.0024	-215.9999	991.0027	831.0024	-105.9997	714.0019	
	831.0024	161.9993	714.0019	0.0000	0.0000	0.0000	
	1316.0020	161.9993	714.0019	1316.0020	286.0000	991.0027	
	1316.0020	180.0003	1041.0028	1316.0020	134.9990	991.0027	
	1316.0020	-54.9988	991.0027	1316.0020	-105.9997	1041.0028	
	1316.0020	-215.9999	991.0027	1316.0020	-105.9997	714.0019	
	1316.0020	161.9993	714.0019	0.0000	0.0000	0.0000	
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
5 ARB8	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	0.0000	0.0000	0.0000	
	831.0024	134.9990	991.0027	831.0024	34.0006	991.0027	
	831.0024	34.0006	1094.0026	831.0024	180.0003	1041.0028	
	1271.0032	134.9990	991.0027	1271.0032	34.0006	991.0027	
6 ARB8	1271.0032	34.0006	1094.0026	1271.0032	180.0003	1041.0028	
	831.0024	34.0006	991.0027	831.0024	-54.9988	991.0027	
	831.0024	-105.9997	1041.0028	831.0024	34.0006	1094.0026	
	1271.0032	34.0006	991.0027	1271.0032	-54.9988	991.0027	
	1271.0032	-105.9997	1041.0028	1271.0032	34.0006	1094.0026	
7 RCC	1067.0023	34.0006	1094.0026	0.0000	0.0000	58.0011	
	54.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
8 RCC	1271.0032	214.0009	766.0010	0.0000	102.9999	-98.0012	
	58.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
9 RCC	712.0004	34.0006	906.0012	118.9995	0.0000	0.0000	
	81.9991	0.0000	0.0000	0.0000	0.0000	0.0000	
10 RCC	1478.0039	707.0016	939.0011	0.0000	-421.0016	0.0000	
	118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
11 RCC	767.0017	228.9997	759.0008	0.0000	0.0000	30.0001	
	44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
12 RCC	1339.0018	410.0008	1116.0017	-22.9998	0.0000	-102.9999	
	42.9998	0.0000	0.0000	0.0000	0.0000	0.0000	
13 ARB8	373.0005	338.9999	1250.0024	373.0005	-334.0012	1250.0024	
	278.9998	-334.0012	1235.0011	278.9998	338.9999	1235.0011	
	488.0020	338.9999	504.9997	488.0020	-334.0012	504.9997	
	394.0013	-334.0012	490.0009	394.0013	338.9999	490.0009	
14 TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN ID
	0.0000	0.0000	264.9992	0.0000	-200.0004	0.0000	
	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
15 TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN ID
	0.0000	0.0000	258.9997	0.0000	-194.0009	0.0000	

TABLE 8-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
16 TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
	0.0000	0.0000	133.0000	0.0000	-100.0002	0.0000	
	1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
17 TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
	0.0000	0.0000	127.0005	0.0000	-94.0007	0.0000	
	1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
18 RCC	1758.0044	48.9993	714.0019	364.9994	0.0000	0.0000	TRANS
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
19 RCC	1927.0040	148.0013	504.9997	254.9992	0.0000	0.0000	
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
20 RCC	1994.0044	148.0013	504.9997	128.9995	0.0000	0.0000	
	125.9997	0.0000	0.0000	0.0000	0.0000	0.0000	
21 BOX	1994.0044	193.0001	526.0005	0.0000	-98.0012	208.9996	
	0.0000	-90.0002	-41.9991	128.9995	0.0000	0.0000	
22 RCC	3898.0086	0.0000	434.0013	-100.0002	0.0000	0.0000	DIFF
	118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
23 SPH	3856.0070	0.0000	434.0013	114.9990	0.0000	0.0000	DIFF
24 RCC	3608.0080	0.0000	458.0019	50.0001	0.0000	0.0000	DIFF
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
25 TRC	3798.0084	0.0000	434.0013	-140.0003	0.0000	0.0000	DIFF
	118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
26 SPH	3566.0079	0.0000	434.0013	40.0001	0.0000	0.0000	U-JOINT
27 SPH	2234.0048	148.0013	504.9997	40.0001	0.0000	0.0000	U-JOINT
28 RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
29 RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
	34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
30 SPH	3856.0070	188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
31 SPH	3856.0070	-188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
32 BOX	861.0024	286.0000	991.0027	0.0000	38.3999	81.3997	L COVER

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

89	SOLID		SOLID PARAMETERS					REMARKS
	NUM	TYPE						
			0.0000	-105.9997	50.0001	424.9996	0.0000	0.0000
	33	BOX	861.0024	-215.9999	991.0027	0.0000	-38.3999	81.3997 R COVER
			0.0000	105.9997	50.0001	424.9996	0.0000	0.0000
	34	RCC	1316.0020	34.0006	991.0027	0.0000	0.0000	90.0002 DIST
			44.0006	0.0000	0.0000	0.0000	0.0000	0.0000
	35	RCC	1301.0033	140.0003	991.0027	0.0000	0.0000	140.0003 COIL
			30.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	36	RCC	3856.0070	228.0015	434.0013	-22.9998	406.0003	-18.0011 L AXLE
			14.9988	0.0000	0.0000	0.0000	0.0000	0.0000
	37	SPH	3833.0072	674.0018	416.0003	40.0001	0.0000	0.0000 U-JOINT
	38	RCC	3856.0070	-228.0015	434.0013	-22.9998	-406.0003	-18.0011 R AXLE
			14.9988	0.0000	0.0000	0.0000	0.0000	0.0000
	39	SPH	3833.0072	-674.0018	416.0003	40.0001	0.0000	0.0000 U-JOINT
	40	RCC	796.0010	0.0000	458.0019	-100.0002	0.0000	0.0000 R DIFF
			146.0013	0.0000	0.0000	0.0000	0.0000	0.0000
	41	SPH	742.0004	0.0000	458.0019	114.9990	0.0000	0.0000
	42	TRC	796.0010	0.0000	458.0019	140.0003	0.0000	0.0000
			118.0012	47.0003	0.0000	0.0000	0.0000	0.0000
	43	RCC	936.0013	0.0000	458.0019	50.0001	0.0000	0.0000
			47.0003	0.0000	0.0000	0.0000	0.0000	0.0000
	44	SPH	746.0009	186.0014	458.0019	40.0001	0.0000	0.0000
	45	SPH	746.0009	-186.0014	458.0019	40.0001	0.0000	0.0000
	46	TRC	3833.0072	666.0006	416.0003	0.0000	131.9992	0.0000 WHEEL HALF
			218.0014	136.0013	0.0000	0.0000	0.0000	0.0000
	47	TRC	3833.0072	942.0008	416.0003	0.0000	-131.9992	0.0000 WHEEL HALF
			218.0014	136.0013	0.0000	0.0000	0.0000	0.0000
	48	TOR	3833.0072	804.0021	416.0003	0.0000	1.0003	0.0000 TIRE
			293.0003	154.9990	0.0000	0.0000	0.0000	0.0000
	49	RCC	3833.0072	666.0006	416.0003	0.0000	276.0000	0.0000
			218.0014	0.0000	0.0000	0.0000	0.0000	0.0000
	50	RCC	3833.0072	714.0019	416.0003	0.0000	11.9990	0.0000 DISC

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
51 RCC	3748.0083	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
52 RCC	3806.7409	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
53 RCC	3901.7729	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
54 RCC	3901.7729	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
55 RCC	3806.7409	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
56 TRC	3833.0072	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
57 TRC	3833.0072	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
58 TCR	3833.0072	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9490	0.0000	0.0000	0.0000	0.0000	
59 RCC	3833.0072	-942.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
60 RCC	3833.0072	-714.0019	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
61 RCC	3748.0083	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
62 RCC	3806.7409	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
63 RCC	3901.7729	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
64 RCC	3901.7729	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
65 RCC	3806.7409	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
66 TRC	767.0017	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
67 TRC	767.0017	942.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
68 TOR	767.0017	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
69 RCC	767.0017	666.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
70 RCC	767.0017	764.0020	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
71 RCC	682.0003	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
72 RCC	740.7355	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
73 RCC	835.7674	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
74 RCC	835.7674	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
75 RCC	740.7355	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
76 TRC	767.0017	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
77 TRC	767.0017	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
78 TOR	767.0017	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
79 RCC	767.0017	-942.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
80 RCC	767.0017	-764.0020	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
81 RCC	682.0003	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE

TABLE E-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
82 RCC	740.7355	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
83 RCC	835.7674	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
84 RCC	835.7674	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
85 RCC	740.7355	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
86 TDR	1120.0022	220.0004	902.0007	0.0000	10.0000	8.0010	AIR HOSE
	310.0006	30.0001	0.0000	0.0000	0.0000	0.0000	
87 ARB8	1150.0022	366.0002	840.0016	1060.0021	0.0000	840.0016	AIR HOSE
	1500.0029	0.0000	840.0016	1500.0029	280.0005	840.0016	
	1150.0022	366.0002	1200.0023	1060.0021	0.0000	1200.0023	
	1500.0029	0.0000	1200.0023	1500.0029	280.0005	1200.0023	
88 RPP	1380.0027	3211.0070	-843.0014	843.0014	450.0009	451.9999	FLOOR CENT
89 ARB8	1628.0042	-890.0017	1123.0019	1628.0042	890.0017	1123.0019	ENG COMPT
	1626.0042	914.0023	1031.0028	1628.0042	-914.0023	1031.0028	BULKHEAD
	1626.0026	-890.0017	1123.0019	1626.0026	890.0017	1123.0019	TOP
	1626.0026	914.0023	1031.0028	1626.0026	-914.0023	1031.0028	
90 RPP	1626.0026	1628.0042	-914.0023	914.0023	837.0019	1031.0028	ENG COMPT
91 ARB8	1628.0042	-914.0023	837.0019	1628.0042	914.0023	837.0019	ENG COMPT
	1628.0042	840.0016	451.9999	1628.0042	-840.0016	451.9999	LOWER CENT
	1626.0026	-914.0023	837.0019	1626.0026	914.0023	837.0019	BULKHEAD
	1626.0026	840.0016	451.9999	1626.0026	-840.0016	451.9999	
92 ARB8	1628.0042	-840.0016	451.9999	1628.0042	840.0016	451.9999	ENG COMPT
	1628.0042	716.0009	369.0000	1628.0042	-716.0009	369.0000	LOWER
	1626.0026	-840.0016	451.9999	1626.0026	840.0016	451.9999	BULKHEAD
	1626.0026	716.0009	369.0000	1626.0026	-716.0009	369.0000	
93 ARB8	2200.0043	147.0005	752.0004	1630.0032	147.0005	752.0004	TRANS
	1630.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER

TABLE E-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID		SOLID PARAMETERS						REMARKS
NUM	TYPE							
94	ARB8	2147.0044	147.0005	890.0017	1630.0032	147.0005	890.0017	
		1630.0032	-52.9998	890.0017	2147.0044	-52.9998	890.0017	
		2197.8630	144.9990	752.0004	1630.0032	144.9990	752.0004	TRANS
		1630.0032	-51.9991	752.0004	2197.8630	-51.9991	752.0004	COVER
		2145.6303	144.9990	888.0027	1630.0032	144.9990	888.0027	
		1630.0032	-51.9991	888.0027	2145.6303	-51.9991	888.0027	
95	RPP	1630.0032	2200.0043	-52.9998	277.0008	451.9999	752.0004	TRANS
96	RPP	1630.0032	2198.0053	-51.9991	274.9993	451.9999	752.0004	TRANS
97	RPP	1630.0032	2200.0043	147.0005	277.0008	752.0004	754.0020	TRANS TOP
98	SPH	1487.0039	148.0013	504.9997	40.0001	0.0000	0.0000	R TRANS U
99	SPH	976.0014	0.0000	458.0019	40.0001	0.0000	0.0000	R TRANS U
100	RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
101	RCC	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
		1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
		34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
102	SPH	767.0017	723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
103	SPH	767.0017	-723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
104	RCC	746.0009	228.0015	458.0019	0.0000	454.9996	-41.9991	RR AXLE
105	RCC	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
		746.0009	-228.0015	458.0019	0.0000	-454.9996	-41.9991	RR AXLE
		14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
106	TDR	578.0021	170.0003	740.0014	14.0005	30.0001	0.0000	H2O HOSE
107	RPP	500.0010	30.0001	0.0000	0.0000	0.0000	0.0000	
		373.0005	923.0015	-20.0000	300.0006	1090.0021	1270.0025	H2O HOSE
		2642.0041	801.0023	627.0015	2287.0047	801.0023	557.0013	SEAT
108	ARB8	2287.0047	294.9993	557.0013	2642.0041	294.9993	627.0015	
		2661.3514	801.0023	528.8910	2306.3494	801.0023	458.8909	
		2306.3494	294.9993	458.8909	2661.3514	294.9993	528.8910	
		2287.0047	801.0023	557.0013	2187.0045	801.0023	1047.0023	SEAT
		2187.0045	294.9993	1047.0023	2287.0047	294.9993	557.0013	
		2218.4168	801.0023	543.0033	2118.4166	801.0023	1033.0043	

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
110 ARBH	2118.4166	294.9993	1033.0043	2218.4168	294.9993	543.0033	
	2642.0041	-801.0023	627.0015	2287.0047	-801.0023	557.0013	SEAT
	2287.0047	-294.9993	557.0013	2642.0041	-294.9993	627.0015	
	2561.3514	-801.0023	528.8910	2306.3494	-801.0023	458.8909	
111 ARBH	2306.3494	-294.9993	458.8909	2661.3514	-294.9993	528.8910	
	2287.0047	-801.0023	557.0013	2187.0045	-801.0023	1047.0023	SEAT
	2187.0045	-294.9993	1047.0023	2287.0047	-294.9993	557.0013	
	2218.4168	-801.0023	543.0033	2118.4166	-801.0023	1033.0043	
112 RCC	2118.4166	-294.9993	1033.0043	2218.4168	-294.9993	543.0033	
	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
113 RCC	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
	98.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
114 RPP	1630.0032	3211.0070	-100.0002	250.0005	451.9999	604.9999	TUNNEL
115 TRC	2879.5179	635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
116 TRC	2879.5179	460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
117 TRC	2386.7407	635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
118 TRC	2386.7407	460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG RT
	50.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
119 SPH	2386.7407	635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
120 SPH	2386.7407	460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
121 REC	2402.0036	548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
	0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
122 REC	2371.4753	548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
123 REC	2321.8638	548.0021	599.2857	-49.6115	0.0000	255.2227	TORSO UP
	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
124 RCC	2272.2548	740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
125 RCC	2272.2548	355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
126 TRC	2341.7089	740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
127 TRC	2341.7089	355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
128 RCC	2272.2548	548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
	60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
129 ELL1	2249.3567	548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
130 SPH	2879.5179	635.5003	761.3172	66.0149	0.0000	0.0000	KNEE LT
131 SPH	2879.5179	460.5013	761.3172	66.0149	0.0000	0.0000	KNEE RT
132 SPH	2341.7089	740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW LT
133 SPH	2341.7089	355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW RT
134 SPH	3201.0070	635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE LT
135 SPH	3201.0070	460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE RT
136 REC	2610.6756	740.5018	949.4786	103.0711	0.0000	20.0356	HAND LT
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
137 REC	2610.6756	355.4998	949.4786	103.0711	0.0000	20.0356	HAND RT
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
138 SPH	2281.7951	738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
139 SPH	2281.7951	358.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
140 TRC	2879.5179	-460.5013	761.3172	87.3916	0.0000	-449.5869	DUMMY
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
141 TRC	2879.5179	-460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
142 TRC	2879.5179	-635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG RT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
143 TRC	2386.7407	-460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

75	SOLID		SOLID PARAMETERS					REMARKS	
	NUM	TYPE							
	144	TRC	2386.7407	-635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG RT
			80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
	145	SPH	2386.7407	-460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
	146	SPH	2386.7407	-635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
	147	REC	2402.0036	-548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
			0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
	148	REC	2371.4753	-548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
			0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
	149	REC	2321.8638	-548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
			0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
	150	RCC	2272.2548	-355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
			47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
	151	RCC	2272.2548	-740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
			47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
	152	TRC	2341.7089	-355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
			42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
	153	TRC	2341.7089	-740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
			42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
	154	RCC	2272.2548	-548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
			60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
	155	ELL1	2249.3567	-548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
			84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
	156	SPH	2879.5179	-460.5013	761.3172	66.0149	0.0000	0.0000	KNEE LT
	157	SPH	2879.5179	-635.5003	761.3172	66.0149	0.0000	0.0000	KNEE RT
	158	SPH	2341.7089	-355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW LT
	159	SPH	2341.7089	-740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW RT
	160	SPH	3201.0070	-460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE LT
	161	SPH	3201.0070	-635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE RT
	162	REC	2610.6756	-355.4998	949.4786	103.0711	0.0000	20.0356	HAND LT
			-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
	163	REC	2610.6756	-740.5018	949.4786	103.0711	0.0000	20.0356	HAND RT

TABLE E-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
164 SPH	2281.7951	-358.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
165 SPH	2281.7951	-738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
166 ARB8	3952.0066	66.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
	3452.0057	0.0000	971.0026	3952.0066	0.0000	825.0003	(ONE)
	3890.0075	69.1086	609.0004	3352.0055	114.4275	657.0015	
	3352.0055	0.0000	657.0015	3890.0075	0.0000	609.0004	
167 ARB8	3952.0066	66.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
	3452.0057	221.9994	971.0026	3952.0066	161.9993	825.0003	(TWO)
	3890.0075	70.4294	657.0015	3414.0071	112.5301	809.0006	
	3414.0071	220.4271	609.0008	3890.0075	161.9993	657.0015	
168 ARB8	3668.0081	208.0014	931.0026	3728.0082	360.0007	909.0010	FUEL CELL
	3952.0066	340.0007	825.0003	3951.8441	182.0197	824.5609	(THREE)
	3668.0081	208.0014	731.0022	3717.7517	334.0215	705.0738	
	3889.8323	320.7245	656.5265	3893.9065	187.3181	667.5680	
169 ARB8	3890.0075	0.0000	609.0004	3890.0075	-291.9995	609.0004	FUEL CELL
	3952.0066	-375.1976	825.0003	3952.0066	0.0000	825.0003	(FOUR)
	3352.0055	0.0000	609.0004	3352.0055	-235.9999	609.0004	
	3452.0057	-380.0007	985.0006	3452.0057	0.0000	985.0006	
170 ARB6	3988.0087	337.0009	755.0002	4296.0078	337.0009	723.0011	FEND INSD
	4295.8503	338.2963	721.4848	3987.8513	336.2963	753.4863	
	4247.0085	454.0014	828.0026	4246.8510	455.2968	826.4862	
171 ARB6	3988.0087	-337.0009	755.0002	4247.0085	-454.0014	828.0026	FEND INSD
	4246.8231	-455.3349	826.5218	3987.8233	-338.3344	753.5219	
	3988.0087	-458.0019	864.0022	3987.8233	-459.3329	862.5214	
172 ARB6	3988.0087	337.0009	755.0002	4247.0085	454.0014	828.0026	FEND INSD
	4246.8231	455.3349	826.5218	3987.8233	338.3344	753.5219	
	3988.0087	458.0019	864.0022	3987.8233	459.3329	862.5214	
173 ARB6	3100.0060	-494.0015	1101.0029	3988.0087	-458.0019	864.0022	FEND INSD
	3987.6760	-459.3456	862.5569	3099.6758	-495.3451	1099.5576	
	4152.0070	-694.0019	1046.0015	4151.6768	-695.3455	1044.5588	

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
174 ARB6	3100.0060	494.0015	1101.0029	3988.0087	458.0019	864.0022	FEND INSD
	3987.6760	459.3456	862.5569	3099.6758	495.3451	1099.5576	
	4152.0070	694.0019	1046.0015	4151.6768	695.3455	1044.5588	
175 ARB6	3988.0087	-458.0019	864.0022	4247.0085	-454.0014	828.0026	FEND INSD
	4246.8180	-455.2968	826.4913	3987.8182	-459.2973	862.4909	
	4152.0070	-694.0019	1046.0015	4151.8191	-695.2973	1044.4902	
176 ARB6	3988.0087	458.0019	864.0022	4247.0085	454.0014	828.0026	FEND INSD
	4246.8180	455.2968	826.4913	3987.8182	459.2973	862.4909	
	4152.0070	694.0019	1046.0015	4151.8191	695.2973	1044.4902	
177 ARB6	3100.0060	-494.0015	1101.0029	4152.0070	-694.0019	1046.0015	FEND INSD
	4151.8597	-694.2381	1044.0229	3099.8587	-494.2377	1099.0217	
	4017.0080	-894.0022	1080.0021	4016.8582	-894.2385	1078.0209	
178 ARB6	3100.0060	494.0015	1101.0029	4152.0070	694.0019	1046.0015	FEND INSD
	4151.8597	694.2381	1044.0229	3099.8587	494.2377	1099.0217	
	4017.0080	894.0022	1080.0021	4016.8582	894.2385	1078.0209	
179 ARB6	3100.0060	-494.0015	1101.0029	4017.0080	-894.0022	1080.0021	FEND INSD
	4016.9623	-894.0022	1078.0031	3099.9603	-494.0015	1099.0014	
	3100.0060	-893.0015	1101.0029	3099.9603	-893.0015	1099.0014	
180 ARB6	3100.0060	494.0015	1101.0029	4017.0080	694.0022	1080.0021	FEND INSD
	4016.9623	894.0022	1078.0031	3099.9603	494.0015	1099.0014	
	3100.0060	893.0015	1101.0029	3099.9603	893.0015	1099.0014	
181 RPP	4296.0078	4371.0092	-508.0020	510.0010	546.0005	723.0011	BUMBER
182 ARB6	4017.0080	894.0022	1080.0021	3465.0054	917.0020	1013.0017	BODY SIDE
	3464.9953	915.0843	1012.4327	4016.9979	892.0845	1079.4331	
	3100.0060	893.0015	1101.0029	3099.9958	891.0838	1100.4339	
183 ARB6	4017.0080	-894.0022	1080.0021	3465.0054	-917.0020	1013.0017	BODY SIDE
	3464.9953	-915.0843	1012.4327	4016.9979	-892.0845	1079.4331	
	3100.0060	-893.0015	1101.0029	3099.9958	-891.0838	1100.4339	
184 ARB6	3465.0054	917.0020	1013.0017	3412.0056	917.0020	982.0009	BODY SIDE
	3412.0996	915.0107	981.8434	3465.0994	915.0107	1012.8442	
	3100.0060	893.0015	1101.0029	3100.0974	891.0101	1100.8429	

TABLE 6-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
78	185 ARB6	3465.0054	-917.0020	1013.0017	3412.0056	-917.0020	982.0009	BODY SIDE
		3412.0996	-915.0107	981.8434	3465.0994	-915.0107	1012.8442	
		3100.0060	-893.0015	1101.0029	3100.0974	-891.0101	1100.8429	
	186 ARB6	3412.0056	917.0020	982.0009	3007.0061	917.0020	971.0026	BODY SIDE
		3007.0162	915.0361	970.6318	3412.0158	915.0361	981.6326	
		3100.0060	893.0015	1101.0029	3100.0162	891.0355	1100.6321	
	187 ARB6	3412.0056	-917.0020	982.0009	3007.0061	-917.0020	971.0026	BODY SIDE
		3007.0162	-915.0361	970.6318	3412.0158	-915.0361	981.6326	
		3100.0060	-893.0015	1101.0029	3100.0162	-891.0355	1100.6321	
	188 ARB6	3412.0056	917.0020	982.0009	3412.0056	917.0020	971.0026	BODY SIDE
		3412.0056	915.0005	971.0026	3412.0056	915.0005	982.0009	
		3007.0061	917.0020	971.0026	3007.0061	915.0005	971.0026	
	189 ARB6	3412.0056	-917.0020	982.0009	3412.0056	-917.0020	971.0026	BODY SIDE
		3412.0056	-915.0005	971.0026	3412.0056	-915.0005	982.0009	
		3007.0061	-917.0020	971.0026	3007.0061	-915.0005	971.0026	
78	190 ARB8	3412.0056	917.0020	971.0026	3362.0055	917.0020	837.0019	BODY SIDE
		2926.0052	917.0020	837.0019	3007.0061	917.0020	971.0026	
		3412.0056	915.0005	971.0026	3362.0055	915.0005	837.0019	
		2926.0052	915.0005	837.0019	3007.0061	915.0005	971.0026	
	191 ARB6	3412.0056	-917.0020	971.0026	3362.0055	-917.0020	837.0019	BODY SIDE
		2926.0052	-917.0020	837.0019	3007.0061	-917.0020	971.0026	
		3412.0056	-915.0005	971.0026	3362.0055	-915.0005	837.0019	
		2926.0052	-915.0005	837.0019	3007.0061	-915.0005	971.0026	
	192 ARB8	3362.0055	917.0020	837.0019	3235.0050	843.0014	451.9999	BODY SIDE
		1354.0031	843.0014	451.9999	1229.0016	917.0020	837.0019	
		3362.0055	915.0386	837.3803	3235.0050	841.0380	452.3783	
		1354.0031	841.0380	452.3783	1229.0016	915.0386	837.3803	
	193 ARB8	3362.0055	-917.0020	837.0019	3235.0050	-843.0014	451.9999	BODY SIDE
		1354.0031	-843.0014	451.9999	1229.0016	-917.0020	837.0019	
		3362.0055	-915.0386	837.3803	3235.0050	-841.0380	452.3783	
		1354.0031	-841.0380	452.3783	1229.0016	-915.0386	837.3803	

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SCLID		SOLID PARAMETERS						REMARKS
NUM	TYPE							
194	ARB8	3235.0050	843.0014	451.9999	3211.0070	716.0009	369.0000	ROCKER PAN
		1380.0027	716.0009	369.0000	1354.0031	843.0014	451.9999	
		3235.0050	841.9066	453.6763	3211.0070	714.9061	370.6738	
		1380.0027	714.9061	370.6738	1354.0031	841.9066	453.6763	
195	ARB8	3235.0050	-843.0014	451.9999	3211.0070	-716.0009	369.0000	ROCKER PAN
		1380.0027	-716.0009	369.0000	1354.0031	-843.0014	451.9999	
		3235.0050	-841.9066	453.6763	3211.0070	-714.9061	370.6738	
		1380.0027	-714.9061	370.6738	1354.0031	-841.9066	453.6763	
196	ARB8	180.0003	-791.0023	678.0023	180.0003	-742.0004	491.0017	R BUMPER
		180.0003	746.0009	491.0017	180.0003	792.0005	678.0023	
		121.9992	-791.0023	678.0023	121.9992	-742.0004	491.0017	
		121.9992	746.0009	491.0017	121.9992	792.0005	678.0023	
197	ARB8	173.6503	-782.7727	671.6523	173.6503	-737.1007	497.3517	INS BUMPER
		173.6503	741.0251	497.3517	173.6503	783.9004	671.6523	
		128.3492	-782.7727	671.6523	128.3492	-737.1007	497.3517	
		128.3492	741.0251	497.3517	128.3492	783.9004	671.6523	
198	ARB8	1701.0041	917.0020	1031.0028	1757.0037	917.0020	837.0019	REAR SIDE
		1229.0016	917.0020	837.0019	1171.0030	917.0020	1031.0028	
		1701.0041	915.0005	1031.0028	1757.0037	915.0005	837.0019	
		1229.0016	915.0005	837.0019	1171.0030	915.0005	1031.0028	
199	ARB8	1701.0041	-917.0020	1031.0028	1757.0037	-917.0020	837.0019	REAR SIDE
		1229.0016	-917.0020	837.0019	1171.0030	-917.0020	1031.0028	
		1701.0041	-915.0005	1031.0028	1757.0037	-915.0005	837.0019	
		1229.0016	-915.0005	837.0019	1171.0030	-915.0005	1031.0028	
200	ARB8	1666.0027	893.0015	1123.0019	1701.0041	917.0020	1031.0028	REAR SIDE
		128.9995	917.0020	1031.0028	115.9997	893.0015	1123.0019	
		1666.0027	891.0660	1122.4965	1701.0041	915.0665	1030.4973	
		128.9995	915.0665	1030.4973	115.9997	891.0660	1122.4965	
201	ARB8	1666.0027	-893.0015	1123.0019	1701.0041	-917.0020	1031.0028	REAR SIDE
		128.9995	-917.0020	1031.0028	115.9997	-893.0015	1123.0019	
		1666.0027	-891.0660	1122.4965	1701.0041	-915.0665	1030.4973	

TABLE E-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
08	202 ARB8	128.9995	-915.0665	1030.4973	115.9997	-891.0660	1122.4965	
		351.0014	917.0020	1031.0028	224.9992	792.0005	678.0023	REAR SIDE
		180.0003	792.0005	678.0023	128.9995	917.0020	1031.0028	
		351.0014	915.1173	1031.6708	224.9992	790.1158	678.6678	
	203 ARB8	180.0003	790.1158	678.6678	128.9995	915.1173	1031.6708	
		351.0014	-917.0020	1031.0028	224.9992	-792.0005	678.0023	REAR SIDE
		180.0003	-792.0005	678.0023	128.9995	-917.0020	1031.0028	
		351.0014	-915.1173	1031.6708	224.9992	-790.1158	678.6678	
	204 ARB8	180.0003	-790.1158	678.6678	128.9995	-915.1173	1031.6708	
		115.9997	893.0015	1123.0019	128.9995	917.0020	1031.0028	REAR
		180.0003	792.0005	678.0023	182.2737	351.0014	678.0023	
		117.9809	893.0116	1123.2839	130.9807	917.0122	1031.2847	
08	205 ARB8	181.9790	792.0107	678.2843	184.2549	351.0116	678.2843	
		115.9997	-893.0015	1123.0019	128.9995	-917.0020	1031.0028	REAR
		180.0003	-792.0005	678.0023	182.2737	-351.0014	678.0023	
		117.9809	-893.0116	1123.2839	130.9807	-917.0122	1031.2847	
	206 ARB6	181.9790	-792.0107	678.2843	184.2549	-351.0116	678.2843	
		115.9997	893.0015	1123.0019	182.2737	351.0014	678.0023	REAR
		184.2523	351.0014	678.2970	117.9784	893.0015	1123.2966	
		115.9997	351.0014	1123.0019	117.9784	351.0014	1123.2966	
	207 ARB6	115.9997	-893.0015	1123.0019	182.2737	-351.0014	678.0023	REAR
		184.2523	-351.0014	678.2970	117.9784	-893.0015	1123.2966	
		115.9997	-351.0014	1123.0019	117.9784	-351.0014	1123.2966	
	208 ARB6	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
		4140.0080	261.9995	321.0014	4296.0078	311.0014	546.0005	
		4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184	
		4134.7908	261.9995	324.6184	4290.7906	311.0014	549.6201	
08	209 ARB6	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
		4140.0080	-261.9995	321.0014	4296.0078	-311.0014	546.0005	
		4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184	
		4134.7908	-261.9995	324.6184	4290.7906	-311.0014	549.6201	

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

18	SOLID		SOLID PARAMETERS					REMARKS	
	NUM	TYPE							
	210	ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
			3957.0079	261.9995	288.0016	4140.0080	261.9995	321.0014	
			4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
			3955.8802	261.9995	294.2500	4138.8803	261.9995	327.2498	
	211	ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
			3957.0079	-261.9995	288.0016	4140.0080	-261.9995	321.0014	
			4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
			3955.8802	-261.9995	294.2500	4138.8803	-261.9995	327.2498	
	212	ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
			3214.0067	270.0005	369.0000	3957.0079	261.9995	288.0016	
			3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
			3214.6925	270.0005	375.3144	3957.6937	261.9995	294.3135	
	213	ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
			3214.0067	-270.0005	369.0000	3957.0079	-261.9995	288.0016	
			3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
			3214.6925	-270.0005	375.3144	3957.6937	-261.9995	294.3135	
	214	ARB8	3362.0055	915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
			3211.0070	714.0019	369.0000	3237.7863	841.0024	451.9999	
			3360.1030	915.0005	837.6166	3209.1020	0.0000	369.6146	
			3209.1020	714.0019	369.6146	3235.8638	841.0024	452.6145	
	215	ARB8	3362.0055	-915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
			3211.0070	-714.0019	369.0000	3237.7863	-841.0024	451.9999	
			3360.1030	-915.0005	837.6166	3209.1020	0.0000	369.6146	
			3209.1020	-714.0019	369.6146	3235.8638	-841.0024	452.6145	
	216	ARB8	3211.0070	0.0000	369.0000	3362.0055	915.0005	837.0019	BULKHEAD
			3412.0056	915.0005	982.0009	3426.5243	0.0000	994.0024	
			3209.1147	-.0203	369.6527	3360.1157	914.9802	837.6547	
			3410.1158	914.9802	982.6537	3424.6320	-.0203	994.6527	
	217	ARB8	3211.0070	0.0000	369.0000	3362.0055	-915.0005	837.0019	BULKHEAD
			3412.0056	-915.0005	982.0009	3426.5243	0.0000	994.0024	
			3209.1147	.0203	369.6527	3360.1157	-914.9802	837.6547	

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	3410.1158	-914.9802	982.6537	3424.6320	.0203	994.6527	
218 RPP	4302.3578	4364.6592	-501.6520	503.6510	552.3506	716.6511	BUMBER
219 ARB8	1316.0020	843.0014	1287.0027	92.9999	843.0014	1287.0027	ENG DECK
	92.9999	-845.0004	1287.0027	1316.0020	-845.0004	1287.0027	
	1341.0034	893.0015	1123.0019	115.9997	893.0015	1123.0019	
	115.9997	-887.0020	1123.0019	1341.0034	-887.0020	1123.0019	
220 ARB8	1314.2850	841.5206	1285.0012	95.3012	841.5206	1285.0012	INS ENG
	95.3012	-843.4484	1285.0012	1314.2850	-843.4484	1285.0012	DECK
	1338.9790	890.9110	1123.0019	118.0190	890.9110	1123.0019	
	118.0190	-884.9369	1123.0019	1338.9790	-884.9369	1123.0019	
221 TOR	2843.0053	635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
	148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
222 TOR	2843.0053	-635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
	148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
223 ARB8	2893.0053	635.0000	1424.0515	2849.1064	844.2511	1480.3026	ROLL BAR
	2751.7046	844.2511	1605.0526	2751.6944	635.0000	1605.0450	CORNER
	2792.8604	635.0000	1345.8395	2749.1062	844.2511	1402.2024	
	2651.7044	844.2511	1526.9524	2651.5495	635.0000	1526.8305	
224 ARB8	2893.0053	-635.0000	1424.0515	2849.1064	-844.2511	1480.3026	ROLL BAR
	2751.7046	-844.2511	1605.0526	2751.7046	-635.0000	1605.0526	CORNER
	2793.0052	-635.0000	1345.9538	2749.1062	-844.2511	1402.2024	
	2651.7044	-844.2511	1526.9524	2651.7044	-635.0000	1526.9524	
225 RCC	2753.0051	635.0000	1500.0029	0.0000	-1270.0025	0.0000	ROLL BAR
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	TOP
226 RCC	2812.0044	775.0002	1427.0030	264.9992	91.9992	-338.0017	ROLL BAR
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
227 RCC	2812.0044	-775.0002	1427.0030	264.9992	-91.9992	-338.0017	ROLL BAR
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
228 RCC	2735.0040	0.0000	1522.0019	351.8498	0.0000	-449.7012	CENTRE BAR
	11.9990	0.0000	0.0000	0.0000	0.0000	0.0000	
229 TOR	1540.0030	660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
230 TOR	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
	1540.0030	-660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR
231 ARB6	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
	1582.0020	672.0003	1653.0029	1582.0020	843.0014	1505.0016	ROLL BAR
	1480.0029	843.0014	1473.0026	1480.0029	672.0003	1621.0039	CORNER
232 ARB6	1582.0020	672.0003	1461.0036	1480.0029	672.0003	1429.0020	
	1582.0020	-672.0003	1653.0029	1582.0020	-843.0014	1505.0016	ROLL BAR
	1480.0029	-843.0014	1473.0026	1480.0029	-672.0003	1621.0039	CORNER
233 RCC	1582.0020	-672.0003	1461.0036	1480.0029	-672.0003	1429.0020	
	1500.0029	672.0003	1547.0033	0.0000	-1344.0031	0.0000	REAR KULL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR TOP
234 RCC	1530.0030	774.0020	1466.0023	150.0003	90.0002	-411.9998	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
235 RCC	1530.0030	-774.0020	1466.0023	150.0003	-90.0002	-411.9998	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
236 RCC	2753.0051	200.0004	1500.0029	-703.0011	264.9992	101.0010	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
237 RCC	2050.0040	464.9996	1601.0039	-550.0011	207.0007	-54.0006	
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
238 RCC	2753.0051	-540.0010	1500.0029	-703.0011	-70.0001	101.0010	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
239 RCC	2050.0040	-610.0012	1601.0039	-550.0011	-50.0001	-54.0006	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
240 ARB8	3988.0087	458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
	4296.0078	0.0000	723.0011	4296.0078	378.0017	723.0011	
	3987.1756	458.0019	862.1835	3987.1756	0.0000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	378.0017	721.1825	
241 ARB8	3988.0087	-458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
	4296.0078	0.0000	723.0011	4296.0078	-378.0017	723.0011	
	3987.1756	-458.0019	862.1835	3987.1756	0.0000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	-378.0017	721.1825	

TABLE 6-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
242 ARB8	3988.0087	0.0000	864.0022	3988.0087	-458.0019	864.0022	HOOD
	3100.0060	-494.0015	1101.0029	3100.0060	0.0000	1101.0029	
	3987.4931	0.0000	862.0692	3987.4931	-458.0019	862.0692	
	3099.4904	-494.0015	1099.0699	3099.4904	0.0000	1099.0699	
243 ARB8	3988.0087	0.0000	864.0022	3988.0087	458.0019	864.0022	HOOD
	3100.0060	494.0015	1101.0029	3100.0060	0.0000	1101.0029	
	3987.4931	0.0000	862.0692	3987.4931	458.0019	862.0692	
	3099.4904	494.0015	1099.0699	3099.4904	0.0000	1099.0699	
244 ARB6	3988.0087	-337.0009	755.0002	4296.0078	-337.0009	723.0011	FEND INSD
	4295.8503	-338.2963	721.4848	3987.8513	-338.2963	753.4863	
	4247.0085	-454.0014	828.0026	4246.8510	-455.2968	826.4862	
245 ELL1	4220.0082	350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
	80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
246 RPP	4040.0078	4220.0082	170.0003	530.0010	683.0011	1053.0018	HEADLIGHT
247 ELL1	4220.0082	-350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
	80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
248 RPP	4040.0078	4220.0082	-530.0010	-170.0003	683.0011	1053.0018	HEADLIGHT
249 RCC	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	COLUMN
	20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
250 TOR	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	STR WHEEL
	190.0004	14.9988	0.0000	0.0000	0.0000	0.0000	
251 RPP	1341.0034	1666.0027	-693.0015	893.0015	1123.0019	1125.0009	TOP DECK F
252 RPP	1416.0022	1620.0031	326.0001	580.0011	453.0006	681.0021	BATTERY
253 RPP	1416.0022	1620.0031	589.0004	840.0016	453.0006	681.0021	BATTERY
254 RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
	330.0000	0.0000	0.0000	0.0000	0.0000	0.0000	MOUNT
255 RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
	300.0000	0.0000	0.0000	0.0000	0.0000	0.0000	MOUNT
256 BCX	3377.0061	-870.0017	937.0021	0.0000	166.0013	0.0000	RADIO SET
	-104.9989	0.0000	-314.9993	-358.0017	0.0000	119.3297	GRC 160
257 BCX	3377.0061	-650.0013	937.0021	0.0000	406.0003	0.0000	GUIDANCE

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
258 RCC	-82.2201	0.0000	-240.3307	-380.0007	0.0000	130.0003	TOW SET
	2448.0058	-420.0008	1610.0031	0.0000	0.0000	338.0017	TRAVERSE
259 RPP	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	UNIT
	2363.0043	2533.0047	-504.9997	-334.9994	1720.0033	1948.0048	TRAVERSE
260 ARBB	2498.0059	-291.0013	1710.0033	2578.0060	-291.0013	1695.0020	TRAVERSE
	2578.0060	-291.0013	1950.0038	2498.0059	-291.0013	1950.0038	UNIT
261 ARBB	2498.0059	-548.0021	1710.0033	2578.0060	-548.0021	1695.0020	TRAVERSE UNIT
	2578.0060	-548.0021	1950.0038	2498.0059	-548.0021	1950.0038	
262 RCC	2398.0057	-291.0013	1710.0033	2318.0055	-291.0013	1695.0020	TRAVERSE UNIT
	2318.0055	-291.0013	1950.0038	2398.0057	-291.0013	1950.0038	
263 SPH	2398.0057	-548.0021	1710.0033	2318.0055	-548.0021	1695.0020	TRAVERSE UNIT
	2318.0055	-548.0021	1950.0038	2398.0057	-548.0021	1950.0038	
264 SPH	2448.0058	-534.9998	1885.0024	0.0000	-80.0002	0.0000	MSSLE S-IN
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
265 RCC	2448.0058	-420.0008	1650.0032	1.0008	0.0000	0.0000	EXTERIOR
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	
266 RCC	2448.0058	-420.0008	1650.0032	1.0008	0.0000	0.0000	EXTERIOR
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	
267 TRC	1843.5647	-420.0008	1885.0024	638.0099	0.0000	0.0000	MSSLE SKIN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	
268 TRC	1843.5647	-420.0008	1885.0024	638.0099	0.0000	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	
269 RCC	2593.2715	-420.0008	1885.0024	202.5404	0.0000	0.0000	LAUNCH
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	
270 RCC	2593.2715	-420.0008	1885.0024	202.5404	0.0000	0.0000	FLIGHT
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	
271 SPH	1843.5647	-420.0008	1885.0024	434.7227	0.0000	0.0000	MOTOR
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	
272 RPP	2481.5745	-420.0008	1885.0024	111.6969	0.0000	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	
273 RCC	2536.4616	-420.0008	1885.0024	93.4571	0.0000	0.0000	FLIGHT
	2593.2715	2619.9416	-494.2072	-345.7944	1810.7985	1959.2088	
274 RCC	2795.8119	-420.0008	1885.0024	147.9556	0.0000	0.0000	WARHEAD

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS										REMARKS
274 ELL1	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	WARHEAD
	2943.7674	-420.0008	1885.0024	98.4254	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
275 ELL1	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	WARHEAD
	2943.7674	-420.0008	1885.0024	95.8854	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
276 RCC	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	MSSLE CASE
	1800.0035	-420.0008	1885.0024	1285.7505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
277 RCC	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	MSSLE CASE
	1801.6291	-420.0008	1885.0024	1282.4993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
278 RCC	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	SIGHT
	2341.4041	-134.0008	2018.0049	419.1017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
279 RCC	64.8973	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	2341.4041	-261.0013	2018.0049	419.1017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
280 RPP	50.8002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	2341.4041	2493.8047	-311.8015	-42.5604	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
281 RAW	2366.6042	-311.8015	1953.1534	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	-101.6004	152.4006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
282 RCC	2448.0056	-420.0008	1885.0024	640.0012	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	LAUNCHER
	84.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	OD
283 RCC	2448.0056	-420.0008	1885.0024	640.0012	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	LAUNCHER
	81.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	ID
284 TRC	3088.0070	-420.0008	1885.0024	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	LAUNCHER
	84.0007	77.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	TAPER OD
285 TRC	3088.0070	-420.0008	1885.0024	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	LAUNCHER
	81.0009	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	TAPER ID
286 RCC	3188.0072	-420.0008	1885.0024	400.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	LAUNCHER
	77.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
287 RCC	3188.0072	-420.0008	1885.0024	400.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	LAUNCHER
	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
288 RPP	2448.0056	2948.0067	-490.0009	-350.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	LAUNCHER
289 REC	2371.4753	-548.0021	744.0629	-99.6014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	BODY ARMOR
	0.0000	157.6991	0.0000	117.5009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
					1710.0033	1740.0034	512.4115	22.8398			

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
290 REC	2371.4753	548.0021	744.0029	-99.6014	0.0000	512.4115	BODY ARMOR
	0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	
291 RCC	1966.0033	-656.0008	603.0009	141.0010	0.0000	0.0000	N S FRNT
	54.0006	0.0000	0.0000	0.0000	0.0000	0.0000	LENS HOS
292 RCC	2030.0039	-579.0004	553.0008	-218.0014	0.0000	0.0000	N S GAS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	BOTTLE
293 RPP	1741.0041	1778.0045	-757.0017	-686.0008	514.9997	643.0010	N S
294 RCC	1778.0045	-596.0006	598.0022	-97.0004	0.0000	0.0000	N S EYE
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	PIECE
295 RPP	1778.0045	1966.0033	-737.0017	-599.0004	512.0000	663.0010	N S CEN-
296 AR88	1781.0042	-737.0017	653.0010	1781.0042	-767.0017	633.0010	N S BODY
	1781.0042	-767.0017	516.0005	1781.0042	-737.0017	516.0005	SIDE
	1963.0035	-737.0017	653.0010	1963.0035	-767.0017	633.0010	PIECE
	1963.0035	-767.0017	516.0005	1963.0035	-737.0017	516.0005	
297 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MISSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
298 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MISSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
299 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MISSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
300 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MISSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
301 RCC	1200.0023	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
302 RCC	1200.0023	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
303 SPH	1200.0023	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
304 RPP	1125.7959	1274.2087	43.2665	69.9366	1293.7973	1442.2101	FLHT MOTOR
305 RCC	1200.0023	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
306 ELL1	1200.0023	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
307 ELL1	1200.0023	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
308 RCC	1200.0023	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
309 RCC	1200.0023	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
310 RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
311 RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
312 TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
313 TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
314 RCC	1010.0020	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
315 RCC	1010.0020	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
316 SPH	1010.0020	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
317 RPP	935.7956	1084.2083	-6.7336	19.9365	1293.7973	1442.2101	FLHT MOTOR
318 RCC	1010.0020	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
319 ELL1	1010.0020	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
320 ELL1	1010.0020	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
321 RCC	1010.0020	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
322 RCC	1010.0020	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

68	SOLID NUM TYPE		SOLID PARAMETERS					REMARKS	
	323	RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	324	RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
			72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	325	TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
			74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	326	TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
			72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
	327	RCC	820.0016	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
			26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	328	RCC	820.0016	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
	329	SPH	820.0016	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
	330	RPP	745.7952	894.2080	43.2665	69.9366	1293.7973	1442.2101	FLHT MOTOR
	331	RCC	820.0016	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
	332	ELL1	820.0016	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
			63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
	333	ELL1	820.0016	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
			60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
	334	RCC	820.0016	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
			80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	335	RCC	820.0016	-748.3758	1368.0037	0.0000	1262.4993	0.0000	MSSLE CASE
			76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	336	RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
			74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	337	RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
			72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
	338	TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
			74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
	339	TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN

TABLE B-1. SOLID DATA FOR OPTION 1 YR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
340 RCC	630.0012	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
341 RCC	630.0012	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
342 SPH	630.0012	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
343 RPP	555.7948	704.2076	-6.7336	19.9365	1293.7973	1442.2101	FLHT MOTOR
344 RCC	630.0012	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
345 ELL1	630.0012	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
346 ELL1	630.0012	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
347 RCC	630.0012	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MISSILE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
348 RCC	630.0012	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MISSILE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
349 TRC	2240.0043	-46.5000	816.0011	0.0000	0.0000	-364.0012	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
350 TRC	2240.0043	-221.5016	816.0011	0.0000	0.0000	-364.0012	LOW LEG RT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
351 TRC	2240.0043	-46.5000	1318.0036	0.0000	0.0000	-502.0000	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
352 TRC	2240.0043	-221.5016	1318.0036	0.0000	0.0000	-502.0000	UP LEG RT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
353 SPH	2240.0043	-46.5000	1318.0036	69.4998	0.0000	0.0000	HIP JNT LT
354 SPH	2240.0043	-221.5016	1318.0036	69.4998	0.0000	0.0000	HIP JNT RT
355 REC	2240.0043	-134.0008	1238.0034	0.0000	0.0000	160.0003	HIPS
	0.0000	157.0006	0.0000	102.9999	0.0000	0.0000	
356 REC	2240.0043	-134.0008	1398.0037	0.0000	0.0000	261.0013	TORSO LOW
	0.0000	144.9990	0.0000	107.0005	0.0000	0.0000	

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
357 REC	2240.0043	-134.0008	1658.0042	0.0000	0.0000	260.0005	TORSO UP
	0.0000	144.9990	0.0000	107.0005	0.0000	0.0000	
358 RCC	2240.0043	58.4990	1918.0047	0.0000	13.9904	-363.7320	UP ARM LT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
359 RCC	2240.0043	-326.5005	1918.0047	0.0000	-13.9904	-363.7320	UP ARM RT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
360 TRC	2240.0043	72.4893	1554.2728	0.0000	10.5309	-273.7978	LOW ARM LT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
361 TRC	2240.0043	-340.4909	1554.2728	193.7469	.5309	-193.7977	LOW ARM RT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
362 RCC	2240.0043	-134.0008	1918.0047	0.0000	0.0000	71.9991	NECK
	60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
363 ELL1	2240.0043	-134.0008	2038.0050	100.0002	0.0000	0.0000	HEAD
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
364 SPH	2240.0043	-46.5000	816.0011	66.0149	0.0000	0.0000	KNEE LT
365 SPH	2240.0043	-221.5016	816.0011	66.0149	0.0000	0.0000	KNEE RT
366 SPH	2240.0043	72.4893	1554.2702	42.4994	0.0000	0.0000	ELBOW LT
367 SPH	2240.0043	-340.4909	1554.2728	42.4994	0.0000	0.0000	ELBOW RT
368 SPH	2240.0043	-46.5000	400.0008	50.0001	0.0000	0.0000	ANKLE LT
369 SPH	2240.0043	-221.5016	400.0008	50.0001	0.0000	0.0000	ANKLE RT
370 REC	2240.0043	82.5198	1280.4825	0.0000	0.0000	-104.9989	HAND LEFT
	50.0001	0.0000	0.0000	0.0000	44.9988	0.0000	
371 REC	2433.7512	-340.4909	1360.5259	74.2470	0.0000	-74.0007	HAND RIGHT
	34.9988	0.0000	34.9988	0.0000	44.9988	0.0000	
372 SPH	2240.0043	55.9996	1868.0046	50.0001	0.0000	0.0000	SHLD JNT L
373 SPH	2240.0043	-324.0011	1868.0046	50.0001	0.0000	0.0000	SHLD JNT R
374 RCC	1316.0020	-231.0012	550.0011	-200.0004	0.0000	0.0000	STARTER
	60.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
375 RCC	1081.0029	-231.0012	550.0011	0.0000	0.0000	-130.0003	STARTER
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
376 RCC	1081.0029	-231.0012	420.0008	334.9994	557.0013	0.0000	STARTER

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
377 RCC	801.0023	228.9997	799.0008	0.0000	0.0000	-369.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
378 RCC	801.0023	228.9997	430.0008	2916.7468	104.9989	0.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
379 RCC	3717.7568	334.0012	430.0008	0.0000	0.0000	258.9997	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
380 RCC	1843.5647	-697.0016	1885.0024	638.0099	0.0000	0.0000	MISSILE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
381 RCC	1843.5647	-697.0016	1885.0024	638.0099	0.0000	0.0000	MISSILE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
382 TRC	2593.2715	-697.0016	1885.0024	202.5404	0.0000	0.0000	MISSILE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
383 TRC	2593.2715	-697.0016	1885.0024	202.5404	0.0000	0.0000	MISSILE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
384 RCC	1843.5647	-697.0016	1885.0024	434.7227	0.0000	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
385 RCC	2481.5745	-697.0016	1885.0024	111.6969	0.0000	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
386 SPH	2536.4616	-697.0016	1885.0024	93.4571	0.0000	0.0000	FLIGHT MOTOR
387 RPP	2593.2715	2619.9416	-771.2080	-622.7952	1810.7985	1959.2088	FLIGHT MOTOR
388 RCC	2795.8119	-697.0016	1885.0024	147.9556	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
389 ELL1	2943.7674	-697.0016	1885.0024	98.4254	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
390 ELL1	2943.7674	-697.0016	1885.0024	95.8654	0.0000	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - INT
391 RCC	1800.0035	-697.0016	1885.0024	1285.7505	0.0000	0.0000	MISSILE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
392 RCC	1801.6291	-697.0016	1885.0024	1282.4993	0.0000	0.0000	MISSILE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

93	SOLID		SOLID PARAMETERS					REMARKS
	NUM	TYPE						
	393	RCC	1300.0025	700.0014	1362.0016	-160.0003	0.0000	0.0000 TRIPOD
			74.9969	0.0000	0.0000	0.0000	0.0000	CENTRE
	394	RCC	1140.0022	659.0005	1337.0028	-900.0017	0.0000	0.0000 TRIPOD LEG
			24.9988	0.0000	0.0000	0.0000	0.0000	
	395	RCC	1140.0022	700.0014	1410.0027	-900.0017	0.0000	0.0000 TRIPOD LEG
			24.9988	0.0000	0.0000	0.0000	0.0000	
	396	RCC	1140.0022	743.0012	1337.0028	-900.0017	0.0000	0.0000 TRIPOD LEG
			24.9988	0.0000	0.0000	0.0000	0.0000	
	397	REC	2240.0043	-134.0008	1398.0037	0.0000	0.0000	520.0010 ARMOR VEST
			0.0000	157.6991	0.0000	119.7005	0.0000	0.0000
	398	REC	1748.0044	-204.9991	1885.0024	1140.0022	0.0000	0.0000 ARMOR
			0.0000	584.9999	0.0000	0.0000	0.0000	340.0007 SHROUD OD
	399	REC	1748.0044	-204.9991	1885.0024	1140.0022	0.0000	0.0000 ARMOR
			0.0000	574.9998	0.0000	0.0000	0.0000	330.0006 SHROUD ID
	400	ARB8	2618.0061	400.0008	1610.0031	1958.0048	400.0008	1610.0031 SHROUD
			1748.0044	400.0008	2242.0033	2888.0066	400.0008	2242.0033 LIMITER
			2618.0061	-820.0016	1610.0031	1958.0048	-820.0016	1610.0031
			1748.0044	-820.0016	2242.0033	2888.0066	-820.0016	2242.0033
	401	RPP	140.0003	1300.0025	-830.0016	580.0011	1287.0027	1487.0031 TOW ARMOR
	402	RPP	160.0003	1280.0025	-810.0016	560.0011	1287.0027	1467.0031 TOW ARMOR
	403	ARB8	3988.0087	-458.0019	864.0022	3988.0087	458.0019	864.0022 HOOD ARMOR
			3100.0060	494.0015	1101.0029	3100.0060	-494.0015	1101.0029 (APRON)
			3988.0087	-458.0019	884.7007	3988.0087	458.0019	884.7007
			3100.0060	494.0015	1121.7014	3100.0060	-494.0015	1121.7014
	404	ARB8	3100.0060	-920.0018	1101.0029	3100.0060	920.0018	1101.0029 WINDSHIELD
			2698.0062	760.0015	1610.0031	2698.0062	-760.0015	1610.0031 ARMOR
			3100.0060	-920.0018	1140.7922	3100.0060	920.0018	1140.7922
			2698.0062	760.0015	1671.7939	2698.0062	-760.0015	1671.7939
	405	ARB8	3100.0060	920.0018	1101.0029	1300.0025	920.0018	1101.0029 LEFT SIDE
			1300.0025	760.0015	1610.0031	2698.0062	760.0015	1610.0031 ARMOR HI
			3100.0060	940.0018	1101.0029	1300.0025	940.0018	1101.0029

TABLE B-1. SOLID DATA FOR OPTION 1 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
406	ARB8	1300.0025	780.0015	1610.0031	2698.0062	780.0015	1610.0031	
		3100.0060	920.0018	1101.0029	1300.0025	920.0018	1101.0029	LEFT SIDE
		1400.0027	920.0018	831.0024	2930.0057	920.0018	831.0024	ARMOR LC
		3100.0060	940.0018	1101.0029	1300.0025	940.0018	1101.0029	
407	ARB8	1400.0027	940.0018	831.0024	2930.0057	940.0018	831.0024	
		3100.0060	-920.0018	1101.0029	1300.0025	-920.0018	1101.0029	RIGHT SIDE
		1300.0025	-760.0015	1610.0031	2698.0062	-760.0015	1610.0031	ARMOR HI
		3100.0060	-940.0018	1101.0029	1300.0025	-940.0018	1101.0029	
408	ARB8	1300.0025	-780.0015	1610.0031	2698.0062	-780.0015	1610.0031	
		3100.0060	-920.0018	1101.0029	1300.0025	-920.0018	1101.0029	RIGHT SIDE
		1400.0027	-920.0018	831.0024	2930.0057	-920.0018	831.0024	ARMOR LC
		3100.0060	-940.0018	1101.0029	1300.0025	-940.0018	1101.0029	
409	RPP	1400.0027	-940.0018	831.0024	2930.0057	-940.0018	831.0024	
		1300.0025	2698.0062	-780.0015	780.0015	1610.0031	1630.0032	ARMOR
410	RCC	2288.0054	-140.0003	1610.0031	0.0000	0.0000	30.0001	ROOF RING
		330.0006	0.0000	0.0000	0.0000	0.0000	0.0000	CUTOUT

TABLE 5-2. REGION DATA FOR OPTION 1 XR311

REG NUM	REGION COMBINATION DATA									REMARKS
1 OR	1 OR	2 OR	3	0	0	0	0	0	0	0 SUMP
2	4	-35	0	0	0	0	0	0	0	0 BLOCK
3 OR	5 OR	6	-106	0	0	0	0	0	0	0 MANIFOLD
4	7	0	0	0	0	0	0	0	0	0 CARB
5	8	-14	0	0	0	0	0	0	0	0 OIL FILT
6	9	0	0	0	0	0	0	0	0	0 PUMP H2O
7	10	0	0	0	0	0	0	0	0	0 AIR FILT
8	11	0	0	0	0	0	0	0	0	0 PUMP GAS
9	12	0	0	0	0	0	0	0	0	0 GAS FILT
10	13	-106	0	0	0	0	0	0	0	0 RADIATOR
11	16	-8	-17	-100	0	0	0	0	0	0 TRANS ADP
12 OR	18 OR	19 OR	20 OR	21 OR	14	-15	-100	0	0	0 TRANS
13 OR	22 OR	23 OR	24 OR	25	0	0	0	0	0	0
14	26	0	0	0	0	0	0	0	0	0
15	27	0	0	0	0	0	0	0	0	0
16	28	-29	-26	0	0	0	0	0	0	0
17	30	0	0	0	0	0	0	0	0	0
18	31	0	0	0	0	0	0	0	0	0
19	32	0	0	0	0	0	0	0	0	0
20	33	0	0	0	0	0	0	0	0	0
21	34	0	0	0	0	0	0	0	0	0
22	35	0	0	0	0	0	0	0	0	0
23	36	0	0	0	0	0	0	0	0	0
24	37	0	0	0	0	0	0	0	0	0
25	38	0	0	0	0	0	0	0	0	0
26	39	0	0	0	0	0	0	0	0	0
27 OR	40 OR	41 OR	42 OR	43	-99	0	0	0	0	0
28	44	0	0	0	0	0	0	0	0	0
29	45	0	0	0	0	0	0	0	0	0
30	48	-49	0	0	0	0	0	0	0	0 TIRE
31	49	-46	-47	-51	-52	-53	-54	-55	0	0 WHEEL

TABLE D-2. REGION DATA FOR OPTION 1 XR311 (CONTINUED)

REG NUM		REGION COMBINATION DATA									REMARKS
96	32	58	-59	C	0	0	0	0	0	0	0 TIRE
	33	59	-56	-57	-61	-62	-63	-64	-65	0	0 WHEEL
	34	68	-69	C	0	0	0	0	0	0	0 TIRE
	35	69	-66	-67	-71	-72	-73	-74	-75	0	0 WHEEL
	36	78	-79	C	C	0	0	0	0	0	0 TIRE
	37	79	-76	-77	-81	-82	-83	-84	-85	0	0 WHEEL
	38	86	87	-7	-10	-34	-5	0	0	0	0 AIR HOSE
	39	88	-112	-18	-19	-20	-21	-91	-92	-100	0 FLW
	40	OR 89	OR 90	-16	OR 92	OR 91	-16	-100	0	0	0 BULKHD
	41	93	-94	C	0	0	0	0	0	0	0 TRANS COVER
	42	95	-96	-27	-112	0	0	0	0	0	0 TRANS COVER
	43	97	C	C	0	0	0	0	0	0	0 TRANS COVER
	44	98	C	C	0	0	0	0	0	0	0 TRANS U JNT
	45	99	0	0	0	0	C	0	C	0	0 TRANS U JNT
	46	100	-101	C	C	0	C	0	0	0	0 REAR PROP
	47	102	0	C	C	0	0	0	0	0	0 U-JOINT
	48	103	C	C	0	C	0	0	0	0	0 U-JOINT
	49	104	C	C	0	0	0	0	0	0	0 REAR AXLE
	50	105	0	C	0	C	C	0	0	0	0 REAR AXLE
	51	106	107	0	C	0	0	0	0	0	0 H2O HOSE
	52	50	0	C	0	0	C	0	0	0	0 DISC BRAKE
	53	60	-39	C	0	0	0	0	0	0	0 DISC BRAKE
	54	70	0	C	0	0	0	0	0	0	0 DISC BRAKE
	55	80	-103	0	C	0	C	0	0	0	0 DISC BRAKE
56	114	112	-113	0	0	0	C	0	0	0 TUNNEL	
57	108	0	0	C	0	0	0	0	0	0 SEAT	
58	109	0	C	0	0	0	0	0	0	0 SEAT	
59	110	0	C	0	0	0	0	0	0	0 SEAT	
60	111	0	C	0	0	0	0	0	0	0 SEAT	
61	115	-117	-130	-134	0	0	0	0	0	0 LOW LEG LT	
62	116	-118	-131	-135	0	0	0	0	0	0 LOW LEG RT	

TABLE P-2. REGION DATA FOR OPTION 1 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA								REMARKS
63	117	-130	-119	-121	0	0	0	0	0 UP LEG LT
64	118	-131	-120	-121	0	0	0	0	0 UP LEG RT
65	119	0	0	0	0	0	0	0	0 HIP JNT LT
66	120	0	0	0	0	0	0	0	0 HIP JNT RT
67	121	-119	-120	-122	0	0	0	0	0 HIPS
68	122	-123	0	0	0	0	0	0	0 TORSO LOW
69	123	0	0	0	0	0	0	0	0 TORSO UP
70	124	-132	-126	-138	0	0	0	0	0 ARM UP LT
71	125	-133	-127	-139	0	0	0	0	0 ARM UP RT
72	126	-132	0	0	0	0	0	0	0 ARM LOW LT
73	127	-133	0	0	0	0	0	0	0 ARM LOW RT
74	128	-123	0	0	0	0	0	0	0 NECK
75	129	-126	0	0	0	0	0	0	0 HEAD
76	130	0	0	0	0	0	0	0	0 KNEE LT
77	131	0	0	0	0	0	0	0	0 KNEE RT
78	132	0	0	0	0	0	0	0	0 ELBOW LT
79	133	0	0	0	0	0	0	0	0 ELBOW RT
80	134	0	0	0	0	0	0	0	0 ANKLE LT
81	135	0	0	0	0	0	0	0	0 ANKLE RT
82	136	-126	0	0	0	0	0	0	0 HAND LEFT
83	137	-127	-250	0	0	0	0	0	0 HAND RT
84	138	-123	0	0	0	0	0	0	0 SHLD JNT L
85	139	-123	0	0	0	0	0	0	0 SHLD JNT R
86	OR 166	OR 167	OR 168	OR 169	0	0	0	0	0 FUEL CELL
87	141	-143	-156	-160	0	0	0	0	0 LOW LEG LT
88	142	-144	-157	-161	0	0	0	0	0 LOW LEG RT
89	143	-156	-145	-147	0	0	0	0	0 UP LEG LT
90	144	-157	-146	-147	0	0	0	0	0 UP LEG RT
91	145	0	0	0	0	0	0	0	0 HIP JNT LT
92	146	0	0	0	0	0	0	0	0 HIP JNT RT
93	147	-145	-146	-148	0	0	0	0	0 HIPS

TABLE E-2. REGION DATA FOR OPTION 1 XR311 (CONTINUED)

86	REG		REGION COMBINATION DATA										REMARKS	
	NUM													
	94	148	-149	C	C	0	0	0	0	0	0	0	0	TORSO LOW
	95	149	0	C	0	0	0	0	0	0	0	0	0	TORSO UP
	96	150	-158	-152	-164	0	0	0	0	0	0	0	0	ARM UP LT
	97	151	-159	-153	-165	0	0	C	0	0	0	0	0	ARM UP RT
	98	152	-158	0	0	0	0	0	0	0	0	0	0	ARM LOW LT
	99	153	-159	0	0	0	0	0	0	0	0	0	0	ARM LOW RT
	100	154	-149	C	0	0	0	0	0	0	0	0	0	NECK
	101	155	-154	C	0	0	0	0	0	0	0	0	0	HEAD
	102	156	0	C	0	0	0	0	C	0	0	0	0	KNEE LT
	103	157	0	C	0	0	0	0	0	0	0	0	0	KNEE RT
	104	158	0	C	0	0	0	C	0	0	0	0	0	ELBOW LT
	105	159	0	C	0	0	0	0	0	0	0	0	0	ELBOW RT
	106	160	0	C	0	0	0	0	0	0	0	0	0	ANKLE LT
	107	161	0	C	0	0	0	0	C	0	0	0	0	ANKLE RT
	108	162	-152	0	0	C	0	C	0	0	0	0	0	HAND LEFT
	109	163	-153	0	C	0	0	0	0	0	0	0	0	HAND RIGHT
	110	164	-149	0	0	0	0	0	0	0	0	0	0	SHLD JNT L
	111	0	0	C	0	0	0	C	0	0	0	0	0	DUMMY
	112	165	-149	0	0	0	0	0	0	0	0	0	0	SHLD JNT R
	113	OR 170	OR 172	OR 174	OR 176	OR 178	OR 180	OR 243	OR 240	-170	0	0	0	FT TOP LF
	114	181	-218	0	0	0	0	0	0	0	0	0	0	F BUMPER
	115	OR 202	OR 184	OR 186	OR 188	OR 190	OR 192	OR 198	OR 200	OR 182	0	0	0	LEFT SIDE
		-180	0	0	0	0	0	0	0	0	0	0	0	
	116	OR 203	OR 185	OR 187	OR 189	OR 191	OR 193	OR 199	OR 201	OR 183	0	0	0	RIGHT SIDE
		-179	0	0	0	0	0	0	0	0	0	0	0	
	117	194	-192	-88	-214	-92	0	0	0	0	0	0	0	ROCKER LFT
	118	195	-193	-88	-215	-92	0	0	0	0	0	0	0	ROCKER RGT
	119	196	-197	0	0	0	0	0	0	0	0	0	0	REAR BUMPER
	120	OR 206	OR 207	OR 204	-202	OR 205	-203	0	0	0	0	0	0	R SHT MET
	121	OR 208	OR 209	OR 210	OR 211	OR 212	OR 213	0	0	0	0	0	0	FLOOR SKID
	122	OR 214	OR 215	OR 217	-28	OR 216	-28	0	0	0	0	0	0	BULKHEAD

TABLE B-2. REGION DATA FOR OPTION 1 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA										REMARKS
123	219	-220	0	0	0	0	0	0	0	0	0 ENG DECK
124	221	223	0	0	0	0	0	0	0	0	0 ROLL BAR
125	222	224	0	0	0	0	0	0	0	0	0 ROLL BAR
126	226	-223	0	0	0	0	0	0	0	0	0 ROLL BAR
127	227	-224	0	0	0	0	0	0	0	0	0 ROLL BAR
128 OR	228 OR	225 OR	236 OR	238 OR	233 OR	239 OR	237	-231			0 ROLL TOP
129	229	231	-233	0	0	0	0	0	0	0	0 ROLL BAR RR
130	230	232	-233	-239	0	0	0	0	0	0	0 ROLL BAR RR
131 OR	244 OR	171 OR	173 OR	175 OR	177 OR	179 OR	242 OR	241	-244		0 FT TOP RT
132	234	-16	0	0	0	0	0	0	0	0	0 ROLL BAR RR
133	235	-16	0	0	0	0	0	0	0	0	0 ROLL BAR RR
134	245	246	0	0	0	0	0	0	0	0	0 HEADLIGHT
135	247	248	0	0	0	0	0	0	0	0	0 HEADLIGHT
136	249	0	0	0	0	0	0	0	0	0	0 STEERING C
137	250	0	0	0	0	0	0	0	0	0	0 STEERING W
138	251	-235	-234	0	0	0	0	0	0	0	0 ENG TP DC
139	252	0	0	0	0	0	0	0	0	0	0 BATTERY
140	253	0	0	0	0	0	0	0	0	0	0 BATTERY
141	254	-255	0	0	0	0	0	0	0	0	0 TOW RING
142	256	0	0	0	0	0	0	0	0	0	0 GRC160 RADI
143	257	0	0	0	0	0	0	0	0	0	0 GUIDANCE
144 OR	262 OR	258	-259	-260	-261	0	0	0	0	0	0 TOW MOUNT
145 OR	265	-266 OR	267	-268	-271	0	0	0	0	0	0 MISSILE SKN
146	269	0	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
147 OR	270 OR	271	272	0	0	0	0	0	0	0	0 FLIGHT MOTR
148	274	-273	-275	0	0	0	0	0	0	0	0 WARHEAD NSE
149 OR	268	-272 OR	273	0	0	0	0	0	0	0	0 WARHEAD
150	266	-269	0	0	0	0	0	0	0	0	0 MISCL - AFT
151	276	-277	0	0	0	0	0	0	0	0	0 MISSILE CAS
152 OR	278 OR	279 OR	280 OR	281	0	0	0	0	0	0	0 SIGHT
153	282	-283	-288	0	0	0	0	0	0	0	0 LAUNCHER

TABLE B-2. REGION DATA FOR OPTION 1 XR311 (CONTINUEO)

100

REG NUM	REGION COMBINATION DATA									REMARKS
154	284	-285	C	0	0	0	0	0	0	C LAUNCHER
155	286	-287	0	0	0	0	0	0	0	0 LAUNCHER
156	289	-148	-149	-154	-164	-165	-150	-151	0	0 BODY ARMOR
	-158	-159	-152	-153	0	0	0	0	0	0
157	290	-122	-123	-128	-138	-139	-124	-125	0	0 BODY ARMOR
	-132	-133	-126	-127	0	C	0	0	C	C
158 OR	291 OR	292 OR	293 OR	294 OR	295 OR	296	0	0	C	C NIGHT SIGH
159 OR	297	-298	OR 299	-300	-303	0	0	0	0	0 MISSILE SKN
160	301	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
161 OR	302 OR	303	304	0	0	0	0	0	0	0 FLIGHT MOTR
162	306	-305	-307	0	0	0	0	0	0	0 WARHEAD NSE
163 OR	300	-304	OR 305	0	0	0	C	0	0	0 WARHEAD
164	298	-301	0	0	0	0	0	0	0	0 MISCL - AFT
165	308	-309	C	0	0	0	0	0	0	0 MISSILE CAS
166 OR	310	-311	OR 312	-313	-316	0	0	0	0	0 MISSILE SKN
167	314	0	0	C	0	0	0	0	0	0 LAUNCH MOTR
168 OR	315 OR	316	317	0	0	0	0	0	0	0 FLIGHT MOTR
169	319	-318	-320	0	0	0	0	0	0	0 WARHEAD NSE
170 OR	313	-317	OR 318	0	0	0	0	0	0	0 WARHEAD
171	311	-314	0	0	0	0	0	0	0	0 MISCL - AFT
172	321	-322	C	0	0	0	0	0	0	0 MISSILE CAS
173 OR	323	-324	OR 325	-326	-329	0	0	0	0	0 MISSILE SKN
174	327	C	0	C	0	0	0	0	0	0 LAUNCH MOTR
175 OR	328 OR	329	330	C	0	0	0	0	0	0 FLIGHT MOTR
176	332	-331	-333	0	0	0	0	0	0	C WARHEAD NSE
177 OR	326	-330	OR 331	0	0	0	0	0	0	0 WARHEAD
178	324	-327	0	0	0	0	0	0	0	0 MISCL - AFT
179	334	-335	0	0	0	0	0	0	0	0 MISSILE CAS
180 OR	336	-337	OR 338	-339	-342	0	C	0	0	0 MISSILE SKN
181	340	C	0	0	0	0	0	0	0	C LAUNCH MOTR
182 OR	341 OR	342	343	C	0	C	0	0	0	0 FLIGHT MOTR

TABLE E-2. REGION DATA FOR OPTION 1 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
183	345	-344	-346	0	0	0	0	0	0	0 WARHEAD NSE
184 OR	339	-343 OR	344	0	0	0	0	0	0	0 WARHEAD
185	337	-340	0	0	0	0	0	0	0	0 MISCL - AFT
186	347	-348	0	0	0	0	0	0	0	0 MISSILE CAS
187	349	-351	-364	-368	-95	-93	0	0	0	0 LOW LEG LT
188	350	-352	-365	-369	0	0	0	0	0	0 LOW LEG RT
189	351	-364	-353	-355	0	0	0	0	0	0 UP LEG LT
190	352	-365	-354	-355	0	0	0	0	0	0 UP LEG RT
191	353	0	0	0	0	0	0	0	0	0 HIP JNT LT
192	354	0	0	0	0	0	0	0	0	0 HIP JNT RT
193	355	-353	-354	-356	0	0	0	0	0	0 HIPS
194	356	-357	0	0	0	0	0	0	0	0 TORSO LOW
195	357	0	0	0	0	0	0	0	0	0 TCRSD UP
196	358	-366	-360	-372	0	0	0	0	0	0 ARM UP LT
197	359	-367	-361	-373	-276	0	0	0	0	0 ARM UP RT
198	360	-366	0	0	0	0	0	0	0	0 ARM LOW LT
199	361	-367	0	0	0	0	0	0	0	0 ARM LOW RT
200	362	-357	0	0	0	0	0	0	0	0 NECK
201	363	-362	0	0	0	0	0	0	0	0 HEAD
202	364	-93	0	0	0	0	0	0	0	0 KNEE LT
203	365	0	0	0	0	0	0	0	0	0 KNEE RT
204	366	0	0	0	0	0	0	0	0	0 ELBOW LT
205	367	0	0	0	0	0	0	0	0	0 ELBOW RT
206	368	0	0	0	0	0	0	0	0	0 ANKLE LT
207	369	0	0	0	0	0	0	0	0	0 ANKLE RT
208	370	-360	0	0	0	0	0	0	0	0 HAND LT
209	371	-361	0	0	0	0	0	0	0	0 HAND RT
210	372	-357	0	0	0	0	0	0	0	0 SHLD JNT L
211	373	-357	-276	0	0	0	0	0	0	0 SHLD JNT
212	374	0	0	0	0	0	0	0	0	0 STARTER
213 OR	375 OR	376	0	0	0	0	0	0	0	0 CABLE

TABLE B-2. REGION DATA FOR OPTION 1 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA										REMARKS
214 OR	377 OR	378 OR	379	0	0	0	0	0	0	0	O GAS LN
215 OR	380	-381 OR	382	-383	-386	0	0	0	0	0	O MISSILE SKN
216	384	0	0	0	0	0	0	0	0	0	C LAUNCH MOT
217 OR	385 OR	386	387	0	0	0	0	0	0	0	O FLIGHT MOT
218	389	-388	-390	0	0	0	0	0	0	0	O WARHEAD NOS
219 OR	383	-387 OR	386	0	0	0	0	0	0	0	O WARHEAD
220	381	-384	0	0	0	0	0	0	0	0	O MISCL AFT
221	391	-392	0	0	0	0	0	0	0	0	O MISSILE CAS
222 OR	393 OR	394 OR	395 OR	396	0	0	0	0	0	0	O TRIPOD
	-366	-367	-372	-373	0	0	0	0	0	0	O
224	400	398	-399	-409	0	0	0	0	0	0	O ARMOR SHROD
225	401	-402	0	0	0	0	0	0	0	0	O TOW ARMOR
226	403	0	0	0	0	0	0	0	0	0	C ARMOR HOOD
227	404	-226	-227	-225	0	0	0	0	0	0	C WINDSHIELD
228 OR	405 OR	406	0	0	0	0	0	0	0	0	O LEFT ARMOR
229 OR	407 OR	408	0	0	0	0	0	0	0	0	O RIGHT ARMOR
230	409	-410	-237	-239	-258	-236	-238	0	0	0	O ROOF

TABLE B-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
1	9701	0	OIL SUMP	1	2
2	9702	0	ENGINE BLOCK	4	55
3	9703	0	INTAKE MANIFOLD	4	20
4	9704	0	CARBURATOR	5	50
5	9705	0	OIL FILTER	1	2
6	9706	0	WATER PUMP	4	30
7	9707	0	AIR FILTER	1	2
8	9708	0	FUEL PUMP	5	30
9	9709	0	FUEL FILTER	5	5
10	9710	0	ENGINE RADIATOR	7	15
11	9711	0	TRAN HOUSEING (HOLLOW)	4	90
12	9712	0	AUTOMATIC TRANSMISSION	5	40
13	9713	0	FRONT DIFFERENTIAL	1	50
14	9714	0	FNT PROPELLER SHAFT U-JOINT	1	55
15	9715	0	FNT TRANSMISSION U-JOINT	1	55
16	9716	0	FNT PROPELLER SHAFT (HOLLOW)	1	15
17	9717	0	LEFT FNT DIFFERENTIAL U-JOINT	1	55
18	9718	0	RIGHT FNT DIFFERENTIAL U-JOINT	1	55
19	9719	0	LEFT ROCKER ARM COVER	1	2
20	9720	0	RIGHT ROCKER ARM COVER	1	2
21	9721	0	DISTRIBUTOR	5	30
22	9722	0	IGNITION COIL	1	5
23	9723	0	LEFT FRONT AXLE	1	100
24	9724	0	LEFT FNT WHEEL U-JOINT	1	55
25	9725	0	RIGHT FRONT AXLE	1	100
26	9726	0	RIGHT FNT WHEEL U-JOINT	1	55
27	9727	0	REAR DIFFERENTIAL	1	50
28	9728	0	REAR LEFT DIFFERENTIAL U-JOINT	1	55
29	9729	0	REAR RIGHT DIFFERENTIAL U-JOINT	1	55
30	8737	0	TIRE	18	25
31	9737	0	WHEEL	1	50

TABLE B-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
32	8737	0	TIRE	18	25
33	9737	0	WHEEL	1	50
34	8737	0	TIRE	18	25
35	9737	0	WHEEL	1	50
36	8737	C	TIRE	18	25
37	9737	U	WHEEL	1	50
38	8704	0	AIR CLEANER HOSE	18	5
39	9112	0	CHASSIS BODY FLOOR	1	49
40	9113	0	ENGINE COMPARTMENT BULKHEAD	1	100
41	9114	0	TRANSMISSION COVER	1	49
42	9114	0	TRANSMISSION COVER	1	49
43	9114	0	TRANSMISSION COVER TOP	1	49
44	9730	0	TRANSMISSION REAR U-JOINT	1	55
45	9731	0	REAR DIFFERENTIAL U-JOINT	1	55
46	9736	0	REAR PROP	1	15
47	9732	0	REAR WHEEL U-JOINT	1	55
48	9733	0	REAR WHEEL U-JOINT	1	55
49	9734	0	REAR AXLE	1	100
50	9735	U	REAR AXLE	1	100
51	9651	0	RADIATOR WATER HOSE	18	5
52	9402	U	DISC BRAKE ROTOR	1	100
53	9403	0	DISC BRAKE ROTOR	1	100
54	9404	U	DISC BRAKE ROTOR	1	100
55	9405	0	DISC BRAKE ROTOR	1	100
56	9756	0	DRIVE TRAIN TUNNEL	1	49
57	9752	0	SEAT	18	100
58	9752	0	SEAT	18	100
59	9752	0	SEAT	18	100
60	9752	0	SEAT	18	100
61	9810	U	LOWER LEG LEFT DRIVER	28	100
62	9811	0	LOWER LEG RIGHT DRIVER	28	100

TABLE B-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LDS PERCENT
63	9812	0	UPPER LEG LEFT	DRIVER	28	100
64	9813	0	UPPER LEG RIGHT	DRIVER	28	100
65	9814	0	HIP JOINT LEFT	DRIVER	28	100
66	9815	0	HIP JOINT RIGHT	DRIVER	28	100
67	9816	0	HIPS	DRIVER	28	100
68	9817	0	TORSO LOWER	DRIVER	28	100
69	9818	0	TORSO CHEST	DRIVER	28	100
70	9819	0	UPPER ARM LEFT	DRIVER	28	100
71	9820	0	UPPER ARM RIGHT	DRIVER	28	100
72	9821	0	LOWER ARM LEFT	DRIVER	28	100
73	9822	0	LOWER ARM RIGHT	DRIVER	28	100
74	9823	0	NECK	DRIVER	28	100
75	9824	0	HEAD	DRIVER	28	100
76	9825	0	KNEE LEFT	DRIVER	28	100
77	9826	0	KNEE RIGHT	DRIVER	28	100
78	9827	0	ELBOW LEFT	DRIVER	28	100
79	9828	0	ELBOW RIGHT	DRIVER	28	100
80	9829	0	ANKLE LEFT	DRIVER	28	100
81	9830	0	ANKLE RIGHT	DRIVER	28	100
82	9831	0	HAND LEFT	DRIVER	28	100
83	9832	0	HAND RIGHT	DRIVER	28	100
84	9833	0	SHOULDER JOINT LEFT	DRIVER	28	100
85	9834	0	SHOULDER JOINT RIGHT	DRIVER	28	100
86	9760	0	FUEL CELL		13	5
87	8910	0	LOWER LEG LEFT	LOADER	28	100
88	8911	0	LOWER LEG RIGHT	LOADER	28	100
89	8912	0	UPPER LEG LEFT	LOADER	28	100
90	8913	0	UPPER LEG RIGHT	LOADER	28	100
91	8914	0	HIP JOINT LEFT	LOADER	28	100
92	8915	0	HIP JOINT RIGHT	LOADER	28	100
93	8916	0	HIPS	LOADER	28	100

TABLE E-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
94	8917	C	TORSO LOWER	LOADER	28	100
95	8918	O	TORSO CHEST	LOADER	28	100
96	8919	O	UPPER ARM LEFT	LOADER	28	100
97	8920	C	UPPER ARM RIGHT	LOADER	28	100
98	8921	O	LOWER ARM LEFT	LOADER	28	100
99	8922	O	LOWER ARM RIGHT	LOADER	28	100
100	8923	C	NECK	LOADER	28	100
101	8924	C	HEAD	LOADER	28	100
102	8925	O	KNEE LEFT	LOADER	28	100
103	8926	O	KNEE RIGHT	LOADER	28	100
104	8927	O	ELBOW LEFT	LOADER	28	100
105	8928	O	ELBOW RIGHT	LOADER	28	100
106	8929	O	ANKLE LEFT	LOADER	28	100
107	8930	C	ANKLE RIGHT	LOADER	28	100
108	8931	C	HAND LEFT	LOADER	28	100
109	8932	O	HAND RIGHT	LOADER	28	100
110	8933	O	SHOULDER JOINT LEFT	LOADER	28	100
111	0	O	DUMMY		0	0
112	8934	O	SHOULDER JOINT RIGHT	LOADER	28	100
113	9101	C	XR 311 FRONT SHEET METAL TOP		1	49
114	9102	C	FRONT BUMPER		1	100
115	9103	O	SHEET METAL LEFT SIDE		1	49
116	9104	O	SHEET METAL RIGHT SIDE		1	49
117	9105	O	LEFT ROCKER PANEL		1	49
118	9105	O	RIGHT ROCKER PANEL		1	49
119	9102	C	REAR BUMPER		1	100
120	9106	C	REAR SHEET METAL		1	49
121	9109	C	FLOOR SKID		1	100
122	9107	O	FORWARD BULKHEAD		1	100
123	9108	O	ENGINE DECK SHEET METAL		1	49
124	9149	C	ROLL BAR CORNER		1	17

TABLE B-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
125	9150	0	ROLL BAR CORNER	1	17
126	9151	0	ROLL BAR SIDE	1	17
127	9152	0	ROLL BAR SIDE	1	17
128	9153	0	ROLL BAR CENTRE AND TOP	1	17
129	9154	0	REAR ROLL BAR CORNER	1	17
130	9155	0	REAR ROLL BAR CORNER	1	17
131	9156	0	FRONT HOOD	1	49
132	9157	0	REAR ROLL BAR SIDE	1	17
133	9158	0	REAR ROLL BAR SIDE	1	17
134	9761	0	HEADLIGHT	1	2
135	9761	0	HEADLIGHT	1	2
136	9762	0	STEERING COLUMN	1	15
137	8762	0	STEERING WHEEL	18	100
138	9115	0	FRONT TOP ENGINE DECK	1	49
139	9763	0	BATTERY	8	38
140	9763	0	BATTERY	8	38
141	9641	0	TOW RING MOUNT	1	55
142	9642	0	RADIO GRC 160	1	24
143	9643	0	TOW GUIDANCE SET	5	21
144	9406	0	TOW TRAVERSE MOUNT	5	60
145	7300	0	MISSILE SKIN	5	100
146	7301	0	LAUNCH MOTOR	2	32
147	7302	0	FLIGHT MOTOR SECTION	2	23
148	7303	0	WARHEAD NOSE	5	100
149	7304	0	WARHEAD SECTION	5	55
150	7305	0	MISCELLANEOUS COMPONENTS	5	23
151	7306	0	MISSILE CASE	16	99
152	9500	0	DAY SIGHT	5	40
153	9510	0	TOW LAUNCHER TUBE	5	99
154	9511	0	TOW LAUNCHER TUBE	5	99
155	9512	0	TOW LAUNCHER TUBE	5	99

FIRE

TABLE E-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL	LOS
				CODE	PERCENT
108	156	9801	0 CREW BODY ARMOR	12	99
	157	9801	0 CREW BODY ARMOR	12	99
	158	9802	0 NIGHT SIGHT (STOWED)	5	80
	159	9300	0 MISSILE SKIN	5	100
	160	9301	0 LAUNCH MOTOR	2	32
	161	9302	0 FLIGHT MOTOR SECTION	2	23
	162	9303	0 WARHEAD NOSE	5	100
	163	9304	0 WARHEAD SECTION	5	55
	164	9305	0 MISCELLANEOUS COMPONENTS	5	23
	165	9306	0 MISSILE CASE	16	99
	166	9300	0 MISSILE SKIN	5	100
	167	9301	0 LAUNCH MOTOR	2	32
	168	9302	0 FLIGHT MOTOR SECTION	2	23
	169	9303	0 WARHEAD NOSE	5	100
	170	9304	0 WARHEAD SECTION	5	55
	171	9305	0 MISCELLANEOUS COMPONENTS	5	23
	172	9306	0 MISSILE CASE	16	99
	173	9300	0 MISSILE SKIN	5	100
	174	9301	0 LAUNCH MOTOR	2	32
	175	9302	0 FLIGHT MOTOR SECTION	2	23
	176	9303	0 WARHEAD NOSE	5	100
	177	9304	0 WARHEAD SECTION	5	55
	178	9305	0 MISCELLANEOUS COMPONENTS	5	23
	179	9306	0 MISSILE CASE	16	99
	180	9300	0 MISSILE SKIN	5	100
	181	9301	0 LAUNCH MOTOR	2	32
	182	9302	0 FLIGHT MOTOR SECTION	2	23
	183	9303	0 WARHEAD NOSE	5	100
	184	9304	0 WARHEAD SECTION	5	55
	185	9305	0 MISCELLANEOUS COMPONENTS	5	23
	186	9306	0 MISSILE CASE	16	99

TABLE B-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LCS PERCENT
187	8810	C	LOWER LEG LEFT	GUNNER	28	100
188	8811	O	LOWER LEG RIGHT	GUNNER	28	100
189	8812	C	UPPER LEG LEFT	GUNNER	28	100
190	8813	O	UPPER LEG RIGHT	GUNNER	28	100
191	8814	O	HIP JOINT LEFT	GUNNER	28	100
192	8815	O	HIP JOINT RIGHT	GUNNER	28	100
193	8816	O	HIPS	GUNNER	28	100
194	8817	O	TORSO LOWER	GUNNER	28	100
195	8818	O	TORSO CHEST	GUNNER	28	100
196	8819	O	UPPER ARM LEFT	GUNNER	28	100
197	8820	O	UPPER ARM RIGHT	GUNNER	28	100
198	8821	O	LOWER ARM LEFT	GUNNER	28	100
199	8822	O	LOWER ARM RIGHT	GUNNER	28	100
200	8823	O	NECK	GUNNER	28	100
201	8824	O	HEAD	GUNNER	28	100
202	8825	O	KNEE LEFT	GUNNER	28	100
203	8826	O	KNEE RIGHT	GUNNER	28	100
204	8827	O	ELBOW LEFT	GUNNER	28	100
205	8828	O	ELBOW RIGHT	GUNNER	28	100
206	8829	O	ANKLE LEFT	GUNNER	28	100
207	8830	O	ANKLE RIGHT	GUNNER	28	100
208	8831	O	HAND LEFT	GUNNER	28	100
209	8832	O	HAND RIGHT	GUNNER	28	100
210	8833	O	SHOULDER JOINT LEFT	GUNNER	28	100
211	8834	O	SHOULDER JOINT RIGHT	GUNNER	28	100
212	9738	C	STARTER MOTOR		1	45
213	9739	O	STARTER CABLE		7	99
214	9740	O	GAS LINES		1	20
215	8300	O	MISSILE SKIN	(READY)	5	100
216	8301	O	LAUNCH MOTOR	(READY)	2	32
217	8302	O	FLIGHT MOTOR SECTION	(READY)	2	23

TABLE B-3. REGIONS IDENTIFICATION FOR OPTION 1 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LCS PERCENT
218	8303	O	WARHEAD NOSE (READY)	5	100
219	8304	C	WARHEAD SECTION (READY)	5	55
220	8305	O	MISCELLANEOUS COMPONENTS (READY)	5	23
221	8306	O	MISSILE CASE	16	99
222	8307	O	TOW TRIPOD	5	60
223	9801	O	BODY ARMOR	12	99
224	8224	C	ARMOR SHROUD	12	79
225	8225	C	TOW ARMOR BOX	12	79
226	8226	O	ARMOR HOOD	12	79
227	8227	C	WINDSHIELD	12	79
228	8228	O	LEFT SIDE ARMOR	12	79
229	8229	O	RIGHT SIDE ARMOR	12	79
230	8230	O	ARMOR ROOF	12	79

APPENDIX C
OPTION 2 XR511-TOW DESCRIPTION LISTING

TABLE C-1. SOLID DATA FOR OPTION 2 XR311

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
1 ARB8	983.0017	-54.9988	434.0013	983.0017	-170.0003	434.0013	
	983.0017	-170.0003	597.0014	983.0017	-30.0001	574.9998	
	1271.0032	-54.9988	434.0013	1271.0032	-170.0003	434.0013	
	1271.0032	-170.0003	597.0014	1271.0032	-30.0001	574.9998	
2 ARB8	983.0017	-30.0001	574.9998	983.0017	-170.0003	597.0014	
	983.0017	-74.9989	651.0020	983.0017	145.9998	574.9998	
	1271.0032	-30.0001	574.9998	1271.0032	-170.0003	597.0014	
	1271.0032	-74.9989	651.0020	1271.0032	145.9998	574.9998	
3 ARB8	983.0017	145.9998	574.9998	983.0017	-74.9989	651.0020	
	983.0017	-74.9989	714.0019	983.0017	145.9998	714.0019	
	1271.0032	145.9998	574.9998	1271.0032	-74.9989	651.0020	
	1271.0032	-74.9989	714.0019	1271.0032	145.9998	714.0019	
4 ARS	4	9	0				
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
	831.0024	31.0008	906.0012	0.0000	0.0000	0.0000	
	831.0024	161.9993	714.0019	831.0024	286.0000	991.0027	
	831.0024	180.0003	1041.0028	831.0024	134.9990	991.0027	
	831.0024	-54.9988	991.0027	831.0024	-105.9997	1041.0028	
	831.0024	-215.9999	991.0027	831.0024	-105.9997	714.0019	
	831.0024	161.9993	714.0019	0.0000	0.0000	0.0000	
	1316.0020	161.9993	714.0019	1316.0020	286.0000	991.0027	
	1316.0020	180.0003	1041.0028	1316.0020	134.9990	991.0027	
	1316.0020	-54.9988	991.0027	1316.0020	-105.9997	1041.0028	
	1316.0020	-215.9999	991.0027	1316.0020	-105.9997	714.0019	
	1316.0020	161.9993	714.0019	0.0000	0.0000	0.0000	
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
5 ARB8	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	0.0000	0.0000	0.0000	
	631.0024	134.9990	991.0027	831.0024	34.0006	991.0027	
	831.0024	34.0006	1094.0026	831.0024	180.0003	1041.0028	
	1271.0032	134.9990	991.0027	1271.0032	34.0006	991.0027	
6 ARB8	1271.0032	34.0006	1094.0026	1271.0032	180.0003	1041.0028	
	831.0024	34.0006	991.0027	831.0024	-54.9988	991.0027	
	831.0024	-105.9997	1041.0028	831.0024	34.0006	1094.0026	
	1271.0032	34.0006	991.0027	1271.0032	-54.9988	991.0027	
	1271.0032	-105.9997	1041.0028	1271.0032	34.0006	1094.0026	
7 RCC	1067.0023	34.0006	1094.0026	0.0000	0.0000	58.0011	
	54.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
8 RCC	1271.0032	214.0009	766.0010	0.0000	102.9999	-98.0012	
	58.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
9 RCC	712.0004	34.0006	906.0012	118.9995	0.0000	0.0000	
	81.9991	0.0000	0.0000	0.0000	0.0000	0.0000	
10 RCC	1478.0039	707.0016	939.0011	0.0000	-421.0016	0.0000	
	118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
11 RCC	767.0017	228.9997	799.0008	0.0000	0.0000	30.0001	
	44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
12 RCC	1339.0018	410.0008	1116.0017	-22.9998	0.0000	-102.9999	
	42.9998	0.0000	0.0000	0.0000	0.0000	0.0000	
13 ARB8	373.0005	338.9999	1250.0024	373.0005	-334.0012	1250.0024	
	278.9998	-334.0012	1235.0011	278.9998	338.9999	1235.0011	
	488.0020	338.9999	504.9997	488.0020	-334.0012	504.9997	
	394.0013	-334.0012	490.0009	394.0013	338.9999	490.0009	
14 TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN ID
	0.0000	0.0000	264.9992	0.0000	-200.0004	0.0000	
	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
15 TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN ID
	0.0000	0.0000	258.9997	0.0000	-194.0009	0.0000	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
16 TEC	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
	0.0000	0.0000	133.0000	0.0000	-100.0002	0.0000	
	1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
17 TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
	0.0000	0.0000	127.0005	0.0000	-94.0007	0.0000	
	1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
	1758.0044	48.9993	714.0019	364.9994	0.0000	0.0000	TRANS
18 RCC	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
	1927.0040	148.0013	504.9997	254.9992	0.0000	0.0000	
19 RCC	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
	1994.0044	148.0013	504.9997	128.9995	0.0000	0.0000	
20 RCC	125.9997	0.0000	0.0000	0.0000	0.0000	0.0000	
	1994.0044	193.0001	526.0005	0.0000	-98.0012	208.9996	
21 BOX	0.0000	-90.0002	-41.9991	128.9995	0.0000	0.0000	
	22 RCC	3898.0086	0.0000	434.0013	-100.0002	0.0000	DIFF
22 RCC	118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
	23 SPH	3856.0070	0.0000	434.0013	114.9990	0.0000	DIFF
23 SPH	3608.0080	0.0000	458.0019	50.0001	0.0000	0.0000	DIFF
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
24 RCC	3798.0084	0.0000	434.0013	-140.0003	0.0000	0.0000	DIFF
	118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
25 TRC	26 SPH	3568.0079	0.0000	434.0013	40.0001	0.0000	U-JOINT
	27 SPH	2234.0048	148.0013	504.9997	40.0001	0.0000	U-JOINT
26 SPH	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
27 SPH	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
	34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
28 RCC	30 SPH	3856.0070	188.0014	434.0013	40.0001	0.0000	U-JOINT
	31 SPH	3856.0070	-188.0014	434.0013	40.0001	0.0000	U-JOINT
29 RCC	32 BOX	861.0024	286.0000	991.0027	0.0000	38.3999	L COVER

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
33 BOX	0.0000	-105.9997	50.0001	424.9996	0.0000	0.0000	
	861.0024	-215.9999	991.0027	0.0000	-32.3999	81.3997	R COVER
34 RCC	0.0000	105.9997	50.0001	424.9996	0.0000	0.0000	
	1316.0020	34.0006	991.0027	0.0000	0.0000	90.0002	DIST
35 RCC	44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
	1301.0033	140.0003	991.0027	0.0000	0.0000	140.0003	COIL
36 RCC	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	3856.0070	228.0015	434.0013	-22.9998	406.0003	-18.0011	L AXLE
37 SPH	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
	3833.0072	674.0018	416.0003	40.0001	0.0000	0.0000	U-JOINT
38 RCC	3856.0070	-228.0015	434.0013	-22.9998	-406.0003	-18.0011	R AXLE
	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
39 SPH	3833.0072	-674.0018	416.0003	40.0001	0.0000	0.0000	U-JOINT
	40 RCC	796.0010	0.0000	458.0019	-100.0002	0.0000	R DIFF
41 SPH	148.0013	0.0000	0.0000	0.0000	0.0000	0.0000	
	742.0004	0.0000	458.0019	114.9990	0.0000	0.0000	
42 TRC	796.0010	0.0000	458.0019	140.0003	0.0000	0.0000	
	118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
43 RCC	936.0013	0.0000	458.0019	50.0001	0.0000	0.0000	
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
44 SPH	746.0009	188.0014	458.0019	40.0001	0.0000	0.0000	
45 SPH	746.0009	-188.0014	458.0019	40.0001	0.0000	0.0000	
46 TRC	3833.0072	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
47 TRC	3833.0072	942.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
48 TOR	3833.0072	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
49 RCC	3833.0072	666.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
50 RCC	3833.0072	714.0019	416.0003	0.0000	11.9990	0.0000	DISC

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
51 RCC	3748.0083	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
52 RCC	3806.7409	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
53 RCC	3901.7729	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
54 RCC	3901.7729	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
55 RCC	3806.7409	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
56 TRC	3833.0072	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
57 TRC	3833.0072	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
58 TOR	3833.0072	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
59 RCC	3833.0072	-942.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
60 RCC	3833.0072	-714.0019	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
61 RCC	3748.0083	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
62 RCC	3806.7409	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
63 RCC	3901.7729	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
64 RCC	3901.7729	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
65 RCC	3806.7409	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
66 TRC	767.0017	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
67 TRC	767.0017	942.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
68 TOR	767.0017	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
69 RCC	767.0017	666.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
70 RCC	767.0017	764.0020	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
71 RCC	682.0003	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
72 RCC	740.7355	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
73 RCC	835.7674	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
74 RCC	835.7674	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
75 RCC	740.7355	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
76 TRC	767.0017	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
77 TRC	767.0017	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
78 TOR	767.0017	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
79 RCC	767.0017	-942.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
80 RCC	767.0017	-764.0020	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
81 RCC	682.0003	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
82 RCC	740.7355	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
83 RCC	835.7674	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
84 RCC	835.7674	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
85 RCC	740.7355	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
86 TOR	1120.0022	220.0004	902.0007	0.0000	10.0000	8.0010	AIR HOSE
	310.0006	30.0001	0.0000	0.0000	0.0000	0.0000	
87 ARB8	1150.0022	366.0002	840.0016	1060.0021	0.0000	840.0016	AIR HOSE
	1500.0029	0.0000	840.0016	1500.0029	280.0005	840.0016	
	1150.0022	366.0002	1200.0023	1060.0021	0.0000	1200.0023	
	1500.0029	0.0000	1200.0023	1500.0029	280.0005	1200.0023	
88 RPP	1380.0027	3211.0070	-843.0014	843.0014	450.0009	451.9999	FLOOR CENT
89 ARB8	1628.0042	-890.0017	1123.0019	1628.0042	890.0017	1123.0019	ENG COMPT
	1628.0042	914.0023	1031.0028	1628.0042	-914.0023	1031.0028	BULKHEAD
	1626.0026	-890.0017	1123.0019	1626.0026	890.0017	1123.0019	TOP
	1626.0026	914.0023	1031.0028	1626.0026	-914.0023	1031.0028	
90 RPP	1626.0026	1628.0042	-914.0023	914.0023	837.0019	1031.0028	ENG COMPT
91 ARB8	1628.0042	-914.0023	837.0019	1628.0042	914.0023	837.0019	ENG COMPT
	1628.0042	840.0016	451.9999	1628.0042	-840.0016	451.9999	LOWER CENT
	1626.0026	-914.0023	837.0019	1626.0026	914.0023	837.0019	BULKHEAD
	1626.0026	840.0016	451.9999	1626.0026	-840.0016	451.9999	
92 ARB8	1628.0042	-840.0016	451.9999	1628.0042	840.0016	451.9999	ENG COMPT
	1628.0042	716.0009	369.0000	1628.0042	-716.0009	369.0000	LOWER
	1626.0026	-840.0016	451.9999	1626.0026	840.0016	451.9999	BULKHEAD
	1626.0026	716.0009	369.0000	1626.0026	-716.0009	369.0000	
93 ARB8	2200.0043	147.0005	752.0004	1630.0032	147.0005	752.0004	TRANS
	1630.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
94 ARB8	2147.0044	147.0005	890.0017	1630.0032	147.0005	890.0017	
	1630.0032	-52.9998	890.0017	2147.0044	-52.9998	890.0017	
	2197.8630	144.9990	752.0004	1630.0032	144.9990	752.0004	TRANS
	1630.0032	-51.9991	752.0004	2197.8630	-51.9991	752.0004	COVER
	2145.6303	144.9990	888.0027	1630.0032	144.9990	888.0027	
	1630.0032	-51.9991	888.0027	2145.6303	-51.9991	888.0027	
95 RPP	1630.0032	2200.0043	-52.9998	277.0008	451.9999	752.0004	TRANS
96 RPP	1630.0032	2198.0053	-51.9991	274.9993	451.9999	752.0004	TRANS
97 RPP	1630.0032	2200.0043	147.0005	277.0008	752.0004	754.0020	TRANS TOP
98 SPH	1887.0039	148.0013	504.9997	40.0001	0.0000	0.0000	R TRANS U
99 SPH	976.0014	0.0000	458.0019	40.0001	0.0000	0.0000	R TRANS U
100 RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
101 RCC	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
	34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
102 SPH	767.0017	723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
103 SPH	767.0017	-723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
104 RCC	746.0009	228.0015	458.0019	0.0000	454.9996	-41.9991	RR AXLE
105 RCC	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
	746.0009	-228.0015	458.0019	0.0000	-454.9996	-41.9991	RR AXLE
	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
106 TOR	578.0021	170.0003	740.0014	14.0005	30.0001	0.0000	H2O HOSE
107 RPP	500.0010	30.0001	0.0000	0.0000	0.0000	0.0000	
	373.0005	923.0015	-20.0000	300.0006	1090.0021	1270.0025	H2O HOSE
	2642.0041	801.0023	627.0015	2287.0047	801.0023	557.0013	SEAT
108 ARB8	2287.0047	294.9993	557.0013	2642.0041	294.9993	627.0015	
109 ARB8	2661.3514	801.0023	528.8910	2306.3494	801.0023	458.8909	
	2306.3494	294.9993	458.8909	2661.3514	294.9993	528.8910	
	2287.0047	801.0023	557.0013	2187.0045	801.0023	1047.0023	SEAT
	2187.0045	294.9993	1047.0023	2287.0047	294.9993	557.0013	
	2218.4168	801.0023	543.0033	2118.4166	801.0023	1033.0043	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
110 ARB8	2118.4166	294.9993	1033.0043	2218.4168	294.9993	543.0033	
	2642.0041	-801.0023	627.0015	2287.0047	-801.0023	557.0013	SEAT
	2287.0047	-294.9993	557.0013	2642.0041	-294.9993	627.0015	
	2661.3514	-801.0023	528.8910	2306.3494	-801.0023	458.8909	
111 ARB8	2306.3494	-294.9993	458.8909	2661.3514	-294.9993	528.8910	
	2287.0047	-801.0023	557.0013	2187.0045	-801.0023	1047.0023	SEAT
	2187.0045	-294.9993	1047.0023	2287.0047	-294.9993	557.0013	
	2218.4168	-801.0023	543.0033	2118.4166	-801.0023	1033.0043	
112 RCC	2118.4166	-294.9993	1033.0043	2218.4168	-294.9993	543.0033	
	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
113 RCC	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
	98.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
114 RPP	1630.0032	3211.0070	-100.0002	250.0005	451.9999	604.9999	TUNNEL
115 TRC	2879.5179	635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
116 TRC	2879.5179	460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
117 TRC	2386.7407	635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
118 TRC	2386.7407	460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG RT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
119 SPH	2386.7407	635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
120 SPH	2386.7407	460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
121 REC	2402.0036	548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
	0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
122 REC	2371.4753	548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
123 REC	2321.8638	548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
124 RCC	2272.2548	740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
125 RCC	2272.2548	355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
126 TRC	2341.7089	740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
127 TRC	2341.7089	355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
128 RCC	2272.2548	548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
	60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
129 ELL1	2249.3567	548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
130 SPH	2879.5179	635.5003	761.3172	66.0149	0.0000	0.0000	KNEE LT
131 SPH	2879.5179	460.5013	761.3172	66.0149	0.0000	0.0000	KNEE RT
132 SPH	2341.7089	740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW LT
133 SPH	2341.7089	355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW RT
134 SPH	3201.0070	635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE LT
135 SPH	3201.0070	460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE RT
136 REC	2610.6756	740.5018	949.4786	103.0711	0.0000	20.0356	HAND LT
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
137 REC	2610.6756	355.4998	949.4786	103.0711	0.0000	20.0356	HAND RT
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
138 SPH	2281.7951	738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
139 SPH	2281.7951	358.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
140 TRC	2679.5179	-460.5013	761.3172	87.3916	0.0000	-449.5869	DUMMY
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
141 TRC	2879.5179	-460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
142 TRC	2879.5179	-635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG RT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
143 TRC	2386.7407	-460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
144	TRC	2386.7407	-635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG RT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
145	SPH	2386.7407	-460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
146	SPH	2386.7407	-635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
147	REC	2402.0036	-548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
		0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
148	REC	2371.4753	-548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
		0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
149	REC	2321.8638	-548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
		0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
150	RCC	2272.2548	-355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
151	RCC	2272.2548	-740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
152	TRC	2341.7089	-355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
153	TRC	2341.7089	-740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
154	RCC	2272.2548	-548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
		60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
155	ELL1	2249.3567	-548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
156	SPH	2879.5179	-460.5013	761.3172	66.0149	0.0000	0.0000	KNEE LT
157	SPH	2879.5179	-635.5003	761.3172	66.0149	0.0000	0.0000	KNEE RT
158	SPH	2341.7089	-355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW LT
159	SPH	2341.7089	-740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW RT
160	SPH	3201.0070	-460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE LT
161	SPH	3201.0070	-635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE RT
162	REC	2610.6756	-355.4998	949.4786	103.0711	0.0000	20.0356	HAND LT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
163	REC	2610.6756	-740.5018	949.4786	103.0711	0.0000	20.0356	HAND RT

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
164 SPH	2281.7951	-358.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
165 SPH	2281.7951	-738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
166 ARB8	3952.0066	68.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
	3452.0057	0.0000	971.0026	3952.0066	0.0000	825.0003	(ONE)
	3890.0075	69.1086	609.0004	3352.0055	114.4275	657.0015	
	3352.0055	0.0000	657.0015	3890.0075	0.0000	609.0004	
167 ARB8	3952.0066	68.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
	3452.0057	221.9994	971.0026	3952.0066	181.9993	825.0003	(TWO)
	3890.0075	70.4294	657.0015	3414.0071	112.5301	809.0008	
	3414.0071	220.4271	809.0008	3890.0075	181.9993	657.0015	
168 ARB8	3668.0081	208.0014	931.0026	3728.0082	360.0007	909.0010	FUEL CELL
	3952.0066	340.0007	825.0003	3951.8441	182.0197	824.5609	(THREE)
	3668.0081	208.0014	731.0022	3717.7517	334.0215	705.0738	
	3889.8323	320.7245	656.5265	3893.9065	187.3181	667.5680	
169 ARB8	3890.0075	0.0000	609.0004	3890.0075	-291.9995	609.0004	FUEL CELL
	3952.0066	-375.1976	825.0003	3952.0066	0.0000	825.0003	(FOUR)
	3352.0055	0.0000	609.0004	3352.0055	-235.9999	609.0004	
	3452.0057	-380.0007	985.0006	3452.0057	0.0000	985.0006	
170 ARB6	3988.0087	337.0009	755.0002	4296.0078	337.0009	723.0011	FEND INSD
	4295.8503	338.2963	721.4848	3987.8513	338.2963	753.4863	
	4247.0085	454.0014	828.0026	4246.8510	455.2968	826.4862	
171 ARB6	3988.0087	-337.0009	755.0002	4247.0085	-454.0014	828.0026	FEND INSD
	4246.8231	-455.3349	826.5218	3987.8233	-338.3344	753.5219	
	3988.0087	-458.0019	864.0022	3987.8233	-459.3329	862.5214	
172 ARB6	3988.0087	337.0009	755.0002	4247.0085	454.0014	828.0026	FEND INSD
	4246.8231	455.3349	826.5218	3987.8233	338.3344	753.5219	
	3988.0087	458.0019	864.0022	3987.8233	459.3329	862.5214	
173 ARB6	3100.0060	-494.0015	1101.0029	3988.0087	-458.0019	864.0022	FEND INSD
	3987.6760	-459.3456	862.5569	3099.6758	-495.3451	1099.5576	
	4152.0070	-694.0019	1046.0015	4151.6768	-695.3455	1044.5588	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
174	ARB6	3100.0060	494.0015	1101.0029	3988.0087	458.0019	864.0022	FEND INSD
		3987.6760	459.3456	862.5569	3099.6758	495.3451	1099.5576	
		4152.0070	694.0019	1046.0015	4151.6768	695.3455	1044.5588	
175	ARB6	3988.0087	-458.0019	864.0022	4247.0085	-454.0014	828.0026	FEND INSD
		4246.8180	-455.2968	826.4913	3987.8182	-459.2973	862.4909	
		4152.0070	-694.0019	1046.0015	4151.8191	-695.2973	1044.4902	
176	ARB6	3988.0087	458.0019	864.0022	4247.0085	454.0014	828.0026	FEND INSD
		4246.8180	455.2968	826.4913	3987.8182	459.2973	862.4909	
		4152.0070	694.0019	1046.0015	4151.8191	695.2973	1044.4902	
177	ARB6	3100.0060	-494.0015	1101.0029	4152.0070	-694.0019	1046.0015	FEND INSD
		4151.8597	-694.2381	1044.0229	3099.8587	-494.2377	1099.0217	
		4017.0080	-894.0022	1080.0021	4016.8582	-894.2385	1078.0209	
178	ARB6	3100.0060	494.0015	1101.0029	4152.0070	694.0019	1046.0015	FEND INSD
		4151.8597	694.2381	1044.0229	3099.8587	494.2377	1099.0217	
		4017.0080	894.0022	1080.0021	4016.8582	894.2385	1078.0209	
179	ARB6	3100.0060	-494.0015	1101.0029	4017.0080	-894.0022	1080.0021	FEND INSD
		4016.9623	-894.0022	1078.0031	3099.9603	-494.0015	1099.0014	
		3100.0060	-893.0015	1101.0029	3099.9603	-893.0015	1099.0014	
180	ARB6	3100.0060	494.0015	1101.0029	4017.0080	894.0022	1080.0021	FEND INSD
		4016.9623	894.0022	1078.0031	3099.9603	494.0015	1099.0014	
		3100.0060	893.0015	1101.0029	3099.9603	893.0015	1099.0014	
181	RPP	4296.0078	4371.0092	-508.0020	510.0010	546.0005	723.0011	BUMBER
182	ARB6	4017.0080	894.0022	1080.0021	3465.0054	917.0020	1013.0017	BODY SIDE
		3464.9953	915.0843	1012.4327	4016.9979	892.0845	1079.4331	
		3100.0060	893.0015	1101.0029	3099.9958	891.0838	1100.4339	
183	ARB6	4017.0080	-894.0022	1080.0021	3465.0054	-917.0020	1013.0017	BODY SIDE
		3464.9953	-915.0843	1012.4327	4016.9979	-892.0845	1079.4331	
		3100.0060	-893.0015	1101.0029	3099.9958	-891.0838	1100.4339	
184	ARB6	3465.0054	917.0020	1013.0017	3412.0056	917.0020	982.0009	BODY SIDE
		3412.0996	915.0107	981.8434	3465.0994	915.0107	1012.8442	
		3100.0060	893.0015	1101.0029	3100.0974	691.0101	1100.8429	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
185 ARB6	3465.0054	-917.0020	1013.0017	3412.0056	-917.0020	982.0009	BODY SIDE
	3412.0996	-915.0107	981.8434	3465.0994	-915.0107	1012.8442	
	3100.0060	-893.0015	1101.0029	3100.0974	-891.0101	1100.8429	
186 ARB6	3412.0056	917.0020	982.0009	3007.0061	917.0020	971.0026	BODY SIDE
	3007.0162	915.0361	970.6318	3412.0158	915.0361	981.6326	
	3100.0060	893.0015	1101.0029	3100.0162	891.0355	1100.6321	
187 ARB6	3412.0056	-917.0020	982.0009	3007.0061	-917.0020	971.0026	BODY SIDE
	3007.0162	-915.0361	970.6318	3412.0158	-915.0361	981.6326	
	3100.0060	-893.0015	1101.0029	3100.0162	-891.0355	1100.6321	
188 ARB6	3412.0056	917.0020	982.0009	3412.0056	917.0020	971.0026	BODY SIDE
	3412.0056	915.0005	971.0026	3412.0056	915.0005	982.0009	
	3007.0061	917.0020	971.0026	3007.0061	915.0005	971.0026	
189 ARB6	3412.0056	-917.0020	982.0009	3412.0056	-917.0020	971.0026	BODY SIDE
	3412.0056	-915.0005	971.0026	3412.0056	-915.0005	982.0009	
	3007.0061	-917.0020	971.0026	3007.0061	-915.0005	971.0026	
190 ARB8	3412.0056	917.0020	971.0026	3362.0055	917.0020	837.0019	BODY SIDE
	2926.0052	917.0020	837.0019	3007.0061	917.0020	971.0026	
	3412.0056	915.0005	971.0026	3362.0055	915.0005	837.0019	
191 ARB8	2926.0052	915.0005	837.0019	3007.0061	915.0005	971.0026	BODY SIDE
	3412.0056	-917.0020	971.0026	3362.0055	-917.0020	837.0019	
	2926.0052	-917.0020	837.0019	3007.0061	-917.0020	971.0026	
192 ARB8	3412.0056	-915.0005	971.0026	3362.0055	-915.0005	837.0019	BODY SIDE
	2926.0052	-915.0005	837.0019	3007.0061	-915.0005	971.0026	
	3362.0055	917.0020	837.0019	3235.0050	843.0014	451.9999	
193 ARB8	1354.0031	843.0014	451.9999	1229.0016	917.0020	837.0019	BODY SIDE
	3362.0055	915.0386	837.3803	3235.0050	841.0380	452.3783	
	1354.0031	841.0380	452.3783	1229.0016	915.0386	837.3803	
193 ARB8	3362.0055	-917.0020	837.0019	3235.0050	-843.0014	451.9999	BODY SIDE
	1354.0031	-843.0014	451.9999	1229.0016	-917.0020	837.0019	
	3362.0055	-915.0386	837.3803	3235.0050	-841.0380	452.3783	
	1354.0031	-841.0380	452.3783	1229.0016	-915.0386	837.3803	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
194	ARB8	3235.0050	843.0014	451.9999	3211.0070	716.0009	369.0000	ROCKER PAN
		1380.0027	716.0009	369.0000	1354.0031	843.0014	451.9999	
		3235.0050	841.9066	453.6763	3211.0070	714.9061	370.6738	
		1380.0027	714.9061	370.6738	1354.0031	841.9066	453.6763	
195	ARB8	3235.0050	-843.0014	451.9999	3211.0070	-716.0009	369.0000	ROCKER PAN
		1380.0027	-716.0009	369.0000	1354.0031	-843.0014	451.9999	
		3235.0050	-841.9066	453.6763	3211.0070	-714.9061	370.6738	
		1380.0027	-714.9061	370.6738	1354.0031	-841.9066	453.6763	
196	ARB8	180.0003	-791.0023	678.0023	180.0003	-742.0004	491.0017	R BUMPER
		180.0003	746.0009	491.0017	180.0003	792.0005	678.0023	
		121.9992	-791.0023	678.0023	121.9992	-742.0004	491.0017	
		121.9992	746.0009	491.0017	121.9992	792.0005	678.0023	
197	ARB8	173.6503	-782.7727	671.6523	173.6503	-737.1007	497.3517	INS BUMPER
		173.6503	741.0251	497.3517	173.6503	783.9004	671.6523	
		128.3492	-782.7727	671.6523	128.3492	-737.1007	497.3517	
		128.3492	741.0251	497.3517	128.3492	783.9004	671.6523	
198	ARB8	1701.0041	917.0020	1031.0028	1757.0037	917.0020	837.0019	REAR SIDE
		1229.0016	917.0020	837.0019	1171.0030	917.0020	1031.0028	
		1701.0041	915.0005	1031.0028	1757.0037	915.0005	837.0019	
		1229.0016	915.0005	837.0019	1171.0030	915.0005	1031.0028	
199	ARB8	1701.0041	-917.0020	1031.0028	1757.0037	-917.0020	837.0019	REAR SIDE
		1229.0016	-917.0020	837.0019	1171.0030	-917.0020	1031.0028	
		1701.0041	-915.0005	1031.0028	1757.0037	-915.0005	837.0019	
		1229.0016	-915.0005	837.0019	1171.0030	-915.0005	1031.0028	
200	ARB8	1666.0027	893.0015	1123.0019	1701.0041	917.0020	1031.0028	REAR SIDE
		128.9995	917.0020	1031.0028	115.9997	893.0015	1123.0019	
		1666.0027	891.0660	1122.4965	1701.0041	915.0665	1030.4973	
		128.9995	915.0665	1030.4973	115.9997	891.0660	1122.4965	
201	ARB8	1666.0027	-893.0015	1123.0019	1701.0041	-917.0020	1031.0028	REAR SIDE
		128.9995	-917.0020	1031.0028	115.9997	-893.0015	1123.0019	
		1666.0027	-891.0660	1122.4965	1701.0041	-915.0665	1030.4973	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
202 ARB8	128.9995	-915.0665	1030.4973	115.9997	-891.0660	1122.4965	
	351.0014	917.0020	1031.0028	224.9992	792.0005	678.0023	REAR SIDE
	180.0003	792.0005	678.0023	128.9995	917.0020	1031.0028	
	351.0014	915.1173	1031.6708	224.9992	790.1158	678.6678	
203 ARB8	180.0003	790.1158	678.6678	128.9995	915.1173	1031.6708	
	351.0014	-917.0020	1031.0028	224.9992	-792.0005	678.0023	REAR SIDE
	180.0003	-792.0005	678.0023	128.9995	-917.0020	1031.0028	
	351.0014	-915.1173	1031.6708	224.9992	-790.1158	678.6678	
204 ARB8	180.0003	-790.1158	678.6678	128.9995	-915.1173	1031.6708	
	115.9997	893.0015	1123.0019	128.9995	917.0020	1031.0028	REAR
	180.0003	792.0005	678.0023	182.2737	351.0014	678.0023	
	117.9809	893.0116	1123.2839	130.9807	917.0122	1031.2847	
205 ARB8	181.9790	792.0107	678.2843	184.2549	351.0116	678.2843	
	115.9997	-893.0015	1123.0019	128.9995	-917.0020	1031.0028	REAR
	180.0003	-792.0005	678.0023	182.2737	-351.0014	678.0023	
	117.9809	-893.0116	1123.2839	130.9807	-917.0122	1031.2847	
206 ARB6	181.9790	-792.0107	678.2843	184.2549	-351.0116	678.2843	
	115.9997	893.0015	1123.0019	182.2737	351.0014	678.0023	REAR
	184.2523	351.0014	678.2970	117.9784	893.0015	1123.2966	
	115.9997	351.0014	1123.0019	117.9784	351.0014	1123.2966	
207 ARB6	115.9997	-893.0015	1123.0019	182.2737	-351.0014	678.0023	REAR
	184.2523	-351.0014	678.2970	117.9784	-893.0015	1123.2966	
	115.9997	-351.0014	1123.0019	117.9784	-351.0014	1123.2966	
208 ARB8	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
	4140.0080	261.9995	321.0014	4296.0078	311.0014	546.0005	
	4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184	
	4134.7908	261.9995	324.6184	4290.7906	311.0014	549.6201	
209 ARB8	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR SKID
	4140.0080	-261.9995	321.0014	4296.0078	-311.0014	546.0005	
	4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184	
	4134.7908	-261.9995	324.6184	4290.7906	-311.0014	549.6201	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
210 ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
	3957.0079	261.9995	288.0016	4140.0080	261.9995	321.0014	
	4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
	3955.8802	261.9995	294.2500	4138.8803	261.9995	327.2498	
211 ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
	3957.0079	-261.9995	288.0016	4140.0080	-261.9995	321.0014	
	4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
	3955.8802	-261.9995	294.2500	4138.8803	-261.9995	327.2498	
212 ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
	3214.0067	270.0005	369.0000	3957.0079	261.9995	288.0016	
	3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
	3214.6925	270.0005	375.3144	3957.6937	261.9995	294.3135	
213 ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
	3214.0067	-270.0005	369.0000	3957.0079	-261.9995	288.0016	
	3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
	3214.6925	-270.0005	375.3144	3957.6937	-261.9995	294.3135	
214 ARB8	3362.0055	915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
	3211.0070	714.0019	369.0000	3237.7863	841.0024	451.9999	
	3360.1030	915.0005	837.6166	3209.1020	0.0000	369.6146	
	3209.1020	714.0019	369.6146	3235.8838	841.0024	452.6145	
215 ARB8	3362.0055	-915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
	3211.0070	-714.0019	369.0000	3237.7863	-841.0024	451.9999	
	3360.1030	-915.0005	837.6166	3209.1020	0.0000	369.6146	
	3209.1020	-714.0019	369.6146	3235.8838	-841.0024	452.6145	
216 ARB8	3211.0070	0.0000	369.0000	3362.0055	915.0005	837.0019	BULKHEAD
	3412.0056	915.0005	982.0009	3426.5243	0.0000	994.0024	
	3209.1147	-.0203	369.6527	3360.1157	914.9802	837.6547	
	3410.1158	914.9802	982.6537	3424.6320	-.0203	994.6527	
217 ARB8	3211.0070	0.0000	369.0000	3362.0055	-915.0005	837.0019	BULKHEAD
	3412.0056	-915.0005	982.0009	3426.5243	0.0000	994.0024	
	3209.1147	.0203	369.6527	3360.1157	-914.9802	837.6547	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
		3410.1158	-914.9802	982.6537	3424.6320	.0203	994.6527	
218	RPP	4302.3578	4364.6592	-501.6520	503.6510	552.3506	716.6511	BUMBER
219	ARB8	1316.0020	843.0014	1287.0027	92.9999	843.0014	1287.0027	ENG DECK
		92.9999	-845.0004	1287.0027	1316.0020	-845.0004	1287.0027	
		1341.0034	893.0015	1123.0019	115.9997	893.0015	1123.0019	
		115.9997	-887.0020	1123.0019	1341.0034	-887.0020	1123.0019	
220	ARB8	1314.2850	841.5206	1285.0012	95.3012	841.5206	1285.0012	INS ENG
		95.3012	-843.4484	1285.0012	1314.2850	-843.4484	1285.0012	DECK
		1338.9790	890.9110	1123.0019	118.0190	890.9110	1123.0019	
		118.0190	-884.9369	1123.0019	1338.9790	-884.9369	1123.0019	
221	TOR	2843.0053	635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
		148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
222	TOR	2843.0053	-635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
		148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
223	ARB8	2893.0053	635.0000	1424.0515	2849.1064	844.2511	1480.3026	ROLL BAR
		2751.7046	844.2511	1605.0526	2751.6944	635.0000	1605.0450	CORNER
		2792.8604	635.0000	1345.8395	2749.1062	844.2511	1402.2024	
		2651.7044	844.2511	1526.9524	2651.5495	635.0000	1526.8305	
224	ARB8	2893.0053	-635.0000	1424.0515	2849.1064	-844.2511	1480.3026	ROLL BAR
		2751.7046	-844.2511	1605.0526	2751.7046	-635.0000	1605.0526	CORNER
		2793.0052	-635.0000	1345.9538	2749.1062	-844.2511	1402.2024	
		2651.7044	-844.2511	1526.9524	2651.7044	-635.0000	1526.9524	
225	RCC	2753.0051	635.0000	1500.0029	0.0000	-1270.0025	0.0000	ROLL BAR
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	TOP
226	RCC	2812.0044	775.0002	1427.0030	264.9992	91.9992	-338.0017	ROLL BAR
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
227	RCC	2812.0044	-775.0002	1427.0030	264.9992	-91.9992	-338.0017	ROLL BAR
		27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
228	RCC	2735.0040	0.0000	1522.0019	351.8498	0.0000	-449.7012	CENTRE BAR
		11.9990	0.0000	0.0000	0.0000	0.0000	0.0000	
229	TOR	1540.0030	660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNFR
230 TOR	1540.0030	-660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR
	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
231 ARB6	1582.0020	672.0003	1653.0029	1582.0020	843.0014	1505.0016	ROLL BAR
	1480.0029	843.0014	1473.0026	1480.0029	672.0003	1621.0039	CORNER
	1582.0020	672.0003	1461.0036	1480.0029	672.0003	1429.0020	
232 ARB6	1582.0020	-672.0003	1653.0029	1582.0020	-843.0014	1505.0016	ROLL BAR
	1480.0029	-843.0014	1473.0026	1480.0029	-672.0003	1621.0039	CORNER
	1582.0020	-672.0003	1461.0036	1480.0029	-672.0003	1429.0020	
233 RCC	1500.0029	672.0003	1547.0033	0.0000	-1344.0031	0.0000	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR TOP
234 RCC	1530.0030	774.0020	1466.0023	150.0003	90.0002	-411.9998	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
235 RCC	1530.0030	-774.0020	1466.0023	150.0003	-90.0002	-411.9998	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
236 RCC	2753.0051	200.0004	1500.0029	-703.0011	264.9992	101.0010	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
237 RCC	2050.0040	464.9996	1601.0039	-550.0011	207.0007	-54.0006	
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
238 RCC	2753.0051	-540.0010	1500.0029	-703.0011	-70.0001	101.0010	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
239 RCC	2050.0040	-610.0012	1601.0039	-550.0011	-50.0001	-54.0006	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
240 ARB8	3988.0087	458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
	4296.0078	0.0000	723.0011	4296.0078	378.0017	723.0011	
	3987.1756	458.0019	862.1835	3987.1756	0.0000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	378.0017	721.1825	
241 ARB8	3988.0087	-458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
	4296.0078	0.0000	723.0011	4296.0078	-378.0017	723.0011	
	3987.1756	-458.0019	862.1835	3987.1756	0.0000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	-378.0017	721.1825	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
242 ARB8	3988.0087	0.0000	864.0022	3988.0087	-458.0019	864.0022	HOOD
	3100.0060	-494.0015	1101.0029	3100.0060	0.0000	1101.0029	
	3987.4931	0.0000	862.0692	3987.4931	-458.0019	862.0692	
	3099.4904	-494.0015	1099.0699	3099.4904	0.0000	1099.0699	
243 ARB8	3988.0087	0.0000	864.0022	3988.0087	458.0019	864.0022	HOOD
	3100.0060	494.0015	1101.0029	3100.0060	0.0000	1101.0029	
	3987.4931	0.0000	862.0692	3987.4931	458.0019	862.0692	
	3099.4904	494.0015	1099.0699	3099.4904	0.0000	1099.0699	
244 ARB6	3988.0087	-337.0009	755.0002	4296.0078	-337.0009	723.0011	FEND INSD
	4295.8503	-338.2963	721.4848	3987.8513	-338.2963	753.4863	
	4247.0085	-454.0014	828.0026	4246.8510	-455.2968	826.4862	
245 ELL1	4220.0082	350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
	80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
246 RPP	4040.0078	4220.0082	170.0003	530.0010	683.0011	1053.0018	HEADLIGHT
247 ELL1	4220.0082	-350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
	80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
248 RPP	4040.0078	4220.0082	-530.0010	-170.0003	683.0011	1053.0018	HEADLIGHT
249 RCC	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	COLUMN
	20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
250 TOR	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	STR WHEEL
	190.0004	14.9988	0.0000	0.0000	0.0000	0.0000	
251 RPP	1341.0034	1666.0027	-893.0015	893.0015	1123.0019	1125.0009	TOP DECK F
252 RPP	1416.0022	1620.0031	326.0001	580.0011	453.0006	681.0021	BATTERY
253 RPP	1416.0022	1620.0031	589.0004	840.0016	453.0006	681.0021	BATTERY
254 RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
	330.0006	0.0000	0.0000	0.0000	0.0000	0.0000	MOUNT
255 RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
	300.0006	0.0000	0.0000	0.0000	0.0000	0.0000	MOUNT
256 BOX	3377.0068	-870.0017	937.0021	0.0000	168.0013	0.0000	RADIO SET
	-104.9989	0.0000	-314.9993	-358.0017	0.0000	119.3297	GRC 160
257 BOX	3377.0068	-650.0013	937.0021	0.0000	406.0003	0.0000	GUIDANCE

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	-82.2201	0.0000	-240.3307	-380.0007	0.0000	130.0003	TOW SET
258 RCC	1678.5021	134.9990	1610.0031	0.0000	0.0000	338.0017	TRAVERSE
	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	UNIT
259 RPP	1593.5032	1763.5035	50.0001	220.0004	1720.0033	1948.0048	TRAVERSE
260 ARB8	1807.5041	84.9989	1710.0033	1807.5041	4.9987	1695.0020	TRAVERSE
	1807.5041	4.9987	1950.0038	1807.5041	84.9989	1950.0038	UNIT
	1550.5034	84.9989	1710.0033	1550.5034	4.9987	1695.0020	
	1550.5034	4.9987	1950.0038	1550.5034	84.9989	1950.0038	
261 ARB8	1807.5041	184.9991	1710.0033	1807.5041	264.9992	1695.0020	TRAVERSE
	1807.5041	264.9992	1950.0038	1807.5041	184.9991	1950.0038	UNIT
	1550.5034	184.9991	1710.0033	1550.5034	264.9992	1695.0020	
	1550.5034	264.9992	1950.0038	1550.5034	184.9991	1950.0038	
262 RCC	1563.5032	134.9990	1885.0024	-80.0002	0.0000	0.0000	
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
263 SPH	1678.5021	134.9990	1650.0032	1.0008	0.0000	0.0000	
264 SPH	1678.5021	134.9990	1650.0032	1.0008	0.0000	0.0000	
265 RCC	1678.5021	739.4401	1885.0024	0.0000	-638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
266 RCC	1678.5021	739.4401	1885.0024	0.0000	-638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
267 TRC	1678.5021	-10.2667	1885.0024	0.0000	-202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
268 TRC	1678.5021	-10.2667	1885.0024	0.0000	-202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
269 RCC	1678.5021	739.4401	1885.0024	0.0000	-434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
270 RCC	1678.5021	101.4302	1885.0024	0.0000	-111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
271 SPH	1678.5021	46.5431	1885.0024	93.4571	0.0000	0.0000	FLHT MOTOR
272 RPP	1604.2983	1752.7085	-36.9368	-10.2667	1810.7985	1959.2088	FLHT MOTOR
273 RCC	1678.5021	-212.8071	1885.0024	0.0000	-147.9556	0.0000	WARHEAD

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
274 ELL1	1678.5021	-360.7627	1885.0024	0.0000	-98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
275 ELL1	1678.5021	-360.7627	1885.0024	0.0000	-95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
276 RCC	1678.5021	783.0013	1885.0024	0.0000	-1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
277 RCC	1678.5021	781.3757	1885.0024	0.0000	-1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
278 RCC	1964.5047	241.6007	2018.0049	0.0000	-419.1017	0.0000	SIGHT
	64.8973	0.0000	0.0000	0.0000	0.0000	0.0000	
279 RCC	1837.5042	241.6007	2018.0049	0.0000	-419.1017	0.0000	
	50.8002	0.0000	0.0000	0.0000	0.0000	0.0000	
280 RPP	1786.7040	2055.9451	89.2001	241.6007	1954.5047	2094.2052	
281 RAW	1786.7040	216.2006	1953.1534	177.8007	0.0000	0.0000	
	0.0000	0.0000	-101.6004	0.0000	-152.4006	0.0000	
282 RCC	1678.5021	134.9990	1885.0024	0.0000	-640.0012	0.0000	LAUNCHER
	84.0007	0.0000	0.0000	0.0000	0.0000	0.0000	OD
283 RCC	1678.5021	134.9990	1885.0024	0.0000	-640.0012	0.0000	LAUNCHER
	81.0009	0.0000	0.0000	0.0000	0.0000	0.0000	ID
284 TRC	1678.5021	-504.9997	1885.0024	0.0000	-100.0002	0.0000	LAUNCHER
	84.0007	77.0004	0.0000	0.0000	0.0000	0.0000	TAPER OD
285 TRC	1678.5021	-504.9997	1885.0024	0.0000	-100.0002	0.0000	LAUNCHER
	81.0009	74.9989	0.0000	0.0000	0.0000	0.0000	TAPER ID
286 RCC	1678.5021	-604.9999	1885.0024	0.0000	-400.0008	0.0000	LAUNCHER
	77.0004	0.0000	0.0000	0.0000	0.0000	0.0000	
287 RCC	1678.5021	-604.9999	1885.0024	0.0000	-400.0008	0.0000	LAUNCHER
	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
288 RPP	1608.5020	1748.5022	-364.9994	134.9990	1710.0033	1740.0034	LAUNCHER
289 REC	2371.4753	-548.0021	744.0629	-99.6014	0.0000	512.4115	BODY ARMOR
	0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
290 REC	2371.4753	548.0021	744.0629	-99.6014	0.0000	512.4115	BODY ARMOR
	0.0000	157.6991	0.0000	117.5009	0.0000	22.8398	
291 RCC	1966.0033	-656.0008	603.0009	141.0010	0.0000	0.0000	N S FRNT
	54.0006	0.0000	0.0000	0.0000	0.0000	0.0000	LENS HOS
292 RCC	2030.0039	-579.0004	553.0008	-218.0014	0.0000	0.0000	N S GAS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	BOTTLE
293 RPP	1741.0041	1778.0045	-757.0017	-686.0008	514.9997	643.0010	N S
294 RCC	1778.0045	-596.0006	598.0022	-97.0004	0.0000	0.0000	N S EYE
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	PIECE
295 RPP	1778.0045	1966.0033	-737.0017	-599.0004	512.0000	663.0010	N S CEN-
296 ARB8	1781.0042	-737.0017	653.0010	1781.0042	-767.0017	633.0010	N S BODY
	1781.0042	-767.0017	516.0005	1781.0042	-737.0017	516.0005	SIDE
	1963.0035	-737.0017	653.0010	1963.0035	-767.0017	633.0010	PIECE
	1963.0035	-767.0017	516.0005	1963.0035	-737.0017	516.0005	
297 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
298 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
299 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
300 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
301 RCC	1200.0023	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
302 RCC	1200.0023	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
303 SPH	1200.0023	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
304 RPP	1125.7959	1274.2087	43.2665	69.9366	1293.7973	1442.2101	FLHT MOTOR
305 RCC	1200.0023	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
306 ELL1	1200.0023	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
307 ELL1	1200.0023	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
308 RCC	1200.0023	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
309 RCC	1200.0023	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
310 RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
311 RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
312 TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
313 TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
314 RCC	1010.0020	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
315 RCC	1010.0020	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
316 SPH	1010.0020	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
317 RPP	935.7956	1084.2083	-6.7336	19.9365	1293.7973	1442.2101	FLHT MOTOR
318 RCC	1010.0020	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
319 ELL1	1010.0020	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
320 ELL1	1010.0020	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
321 RCC	1010.0020	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
322 RCC	1010.0020	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
323 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
324 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
325 TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
326 TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
327 RCC	820.0016	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
328 RCC	820.0016	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
329 SPH	820.0016	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
330 RPP	745.7952	894.2080	43.2665	69.9366	1293.7973	1442.2101	FLHT MOTOR
331 RCC	820.0016	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
332 ELL1	820.0016	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
333 ELL1	820.0016	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
334 RCC	820.0016	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
335 RCC	820.0016	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
336 RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
337 RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
338 TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
339 TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
340	RCC	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
		630.0012	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
341	RCC	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
		630.0012	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
		74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
342	SPH	630.0012	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
343	RPP	555.7948	704.2076	-6.7336	19.9365	1293.7973	1442.2101	FLHT MOTOR
344	RCC	630.0012	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
345	ELL1	630.0012	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
		63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
346	ELL1	630.0012	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
		60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
347	RCC	630.0012	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MISSILE CASE
		80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
348	RCC	630.0012	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MISSILE CASE
		76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
349	TRC	2052.0030	343.0004	816.0011	0.0000	0.0000	-364.0012	LOW LEG LT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
350	TRC	1877.0039	343.0004	816.0011	0.0000	0.0000	-364.0012	LOW LEG RT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
351	TRC	2052.0030	343.0004	1318.0036	0.0000	0.0000	-502.0000	UP LEG LT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
352	TRC	1877.0039	343.0004	1318.0036	0.0000	0.0000	-502.0000	UP LEG RT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
353	SPH	2052.0030	343.0004	1318.0036	69.4998	0.0000	0.0000	HIP JNT LT
354	SPH	1877.0039	343.0004	1318.0036	69.4998	0.0000	0.0000	HIP JNT RT
355	REC	1964.5047	343.0004	1238.0034	0.0000	0.0000	160.0003	HIPS
		157.0006	0.0000	0.0000	0.0000	-102.9999	0.0000	
356	REC	1964.5047	343.0004	1398.0037	0.0000	0.0000	261.0013	TORSO LOW
		144.9990	0.0000	0.0000	0.0000	-107.0005	0.0000	

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
357	REC	1964.5047	343.0004	1658.0042	0.0000	0.0000	260.0005	TORSO UP
		144.9990	0.0000	0.0000	0.0000	-107.0005	0.0000	
358	RCC	2157.0044	343.0004	1918.0047	13.9904	0.0000	-363.7320	UP ARM LT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
359	RCC	1772.0024	343.0004	1918.0047	-13.9904	0.0000	-363.7320	UP ARM RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
360	TRC	2170.9948	343.0004	1554.2728	10.5309	0.0000	-273.7978	LOW ARM LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
361	TRC	1758.0146	343.0004	1554.2728	10.5309	0.0000	-273.7978	LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
362	RCC	1964.5047	343.0004	1918.0047	0.0000	0.0000	71.9991	NECK
		60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
363	ELL1	1964.5047	343.0004	2038.0050	0.0000	-100.0002	0.0000	HEAD
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
364	SPH	2052.0030	343.0004	816.0011	66.0149	0.0000	0.0000	KNEE LT
365	SPH	1877.0039	343.0004	816.0011	66.0149	0.0000	0.0000	KNEE RT
366	SPH	2170.9948	343.0004	1554.2702	42.4994	0.0000	0.0000	ELBOW LT
367	SPH	1758.0146	343.0004	1554.2728	42.4994	0.0000	0.0000	ELBOW RT
368	SPH	2052.0030	343.0004	400.0008	50.0001	0.0000	0.0000	ANKLE LT
369	SPH	1877.0039	343.0004	400.0008	50.0001	0.0000	0.0000	ANKLE RT
370	REC	2181.0253	343.0004	1280.4825	0.0000	0.0000	-104.9989	HAND LEFT
		0.0000	-50.0001	0.0000	44.9988	0.0000	0.0000	
371	REC	2181.0253	343.0004	1280.4825	0.0000	0.0000	-104.9989	HAND RIGHT
		0.0000	-50.0001	0.0000	44.9988	0.0000	0.0000	
372	SPH	2154.5051	343.0004	1868.0046	50.0001	0.0000	0.0000	SHLD JNT L
373	SPH	1774.5043	343.0004	1868.0046	50.0001	0.0000	0.0000	SHLD JNT R
374	RCC	1316.0020	-231.0012	550.0011	-200.0004	0.0000	0.0000	STARTER
		60.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
375	RCC	1081.0029	-231.0012	550.0011	0.0000	0.0000	-130.0003	STARTER
		4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
376	RCC	1081.0029	-231.0012	420.0008	334.9994	557.0013	0.0000	STARTER

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
377 RCC	801.0023	228.9997	799.0008	0.0000	0.0000	-369.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
378 RCC	801.0023	228.9997	430.0008	2916.7468	104.9989	0.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
379 RCC	3717.7568	334.0012	430.0008	0.0000	0.0000	258.9997	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
380 RCC	1401.5039	739.4401	1885.0024	0.0000	-638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
381 RCC	1401.5039	739.4401	1885.0024	0.0000	-638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
382 TRC	1401.5039	-10.2667	1885.0024	0.0000	-202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
383 TRC	1401.5039	-10.2667	1885.0024	0.0000	-202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
384 RCC	1401.5039	739.4401	1885.0024	0.0000	-434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
385 RCC	1401.5039	101.4302	1885.0024	0.0000	-111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
386 SPH	1401.5039	46.5431	1885.0024	93.4571	0.0000	0.0000	FLHT MOTOR
387 RPP	1327.2975	1475.7077	-36.9368	-10.2667	1810.7985	1959.2088	FLHT MOTOR
388 RCC	1401.5039	-212.8071	1885.0024	0.0000	-147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
389 ELL1	1401.5039	-360.7627	1885.0024	0.0000	-98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	N0SE - EXT
390 ELL1	1401.5039	-360.7627	1885.0024	0.0000	-95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	N0SE -INT
391 RCC	1401.5039	783.0013	1885.0024	0.0000	-1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
392 RCC	1401.5039	781.3757	1885.0024	0.0000	-1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR

TABLE C-1. SOLID DATA FOR OPTION 2 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
393	RCC	1300.0025	700.0014	1362.0016	-160.0003	0.0000	0.0000	TRIPOD
		74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	CENTRE
394	RCC	1140.0022	659.0005	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
		24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
395	RCC	1140.0022	700.0014	1410.0027	-900.0017	0.0000	0.0000	TRIPOD LEG
		24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
396	RCC	1140.0022	743.0012	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
		24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
397	REC	1964.5047	343.0004	1398.0037	0.0000	0.0000	520.0010	ARMOR VEST
		157.6991	0.0000	0.0000	0.0000	-119.7005	0.0000	
398	ARB8	3100.0060	-920.0018	1101.0029	3100.0060	920.0018	1101.0029	WINDSHIELD
		2698.0062	760.0015	1610.0031	2698.0062	-760.0015	1610.0031	ARMOR
		3100.0060	-920.0018	1133.5023	3100.0060	920.0018	1133.5023	
		2698.0062	760.0015	1642.5025	2698.0062	-760.0015	1642.5025	
399	ARB8	2203.0040	-760.0015	2244.0049	2698.0062	-760.0015	1610.0031	FRONT TOP
		2698.0062	760.0015	1610.0031	2203.0040	760.0015	2244.0049	ARMOR
		2203.0040	-760.0015	2276.5043	2698.0062	-760.0015	1642.5025	
		2698.0062	760.0015	1642.5025	2203.0040	760.0015	2276.5043	
400	RPP	653.0010	2203.0040	-760.0015	760.0015	2244.0049	2264.0049	ROOF ARMOR
401	RPP	72.9999	92.9999	-760.0015	760.0015	1287.0027	1684.0038	REAR ARMOR
402	RPP	72.9999	653.0010	-760.0015	760.0015	1684.0038	2244.0049	ARMOR R TP
403	RCC	653.0010	-760.0015	1684.0038	0.0000	1520.0029	0.0000	ARMOR R TP
		580.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
404	RCC	653.0010	-760.0015	1684.0038	0.0000	1520.0029	0.0000	ARMOR R TP
		560.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
405	RCC	1698.0043	154.9990	1610.0031	0.0000	0.0000	-800.0015	PEDESTAL
		70.0001	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE C-2. REGION DATA FOR OPTION 2 XR311

REG NUM	REGION COMBINATION DATA									REMARKS
1 OR	1 OR	2 OR	3	0	0	0	0	0	0	0 SUMP
2	4	-35	0	0	0	0	0	0	0	0 BLOCK
3 OR	5 OR	6	-106	0	0	0	0	0	0	0 MANIFOLD
4	7	0	0	0	0	0	0	0	0	0 CARB
5	8	-14	0	0	0	0	0	0	0	0 OIL FILT
6	9	0	0	0	0	0	0	0	0	0 PUMP H2O
7	10	0	0	0	0	0	0	0	0	0 AIR FILT
8	11	0	0	0	0	0	0	0	0	0 PUMP GAS
9	12	0	0	0	0	0	0	0	0	0 GAS FILT
10	13	-106	0	0	0	0	0	0	0	0 RADIATOR
11	16	-8	-17	-100	0	0	0	0	0	0 TRANS ADP
12 OR	18 OR	19 OR	20 OR	21 OR	14	-15	-100	0	0	0 TRANS
13 OR	22 OR	23 OR	24 OR	25	0	0	0	0	0	0
14	26	0	0	0	0	0	0	0	0	0
15	27	0	0	0	0	0	0	0	0	0
16	28	-29	-26	0	0	0	0	0	0	0
17	30	0	0	0	0	0	0	0	0	0
18	31	0	0	0	0	0	0	0	0	0
19	32	0	0	0	0	0	0	0	0	0
20	33	0	0	0	0	0	0	0	0	0
21	34	0	0	0	0	0	0	0	0	0
22	35	0	0	0	0	0	0	0	0	0
23	36	0	0	0	0	0	0	0	0	0
24	37	0	0	0	0	0	0	0	0	0
25	38	0	0	0	0	0	0	0	0	0
26	39	0	0	0	0	0	0	0	0	0
27 OR	40 OR	41 OR	42 OR	43	-99	0	0	0	0	0
28	44	0	0	0	0	0	0	0	0	0
29	45	0	0	0	0	0	0	0	0	0
30	48	-49	0	0	0	0	0	0	0	0 TIRE
31	49	-46	-47	-51	-52	-53	-54	-55	0	0 WHEEL

TABLE C-2. REGION DATA FOR OPTION 2 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
32	58	-59	0	0	0	0	0	0	0	0 TIRE
33	59	-56	-57	-61	-62	-63	-64	-65	0	0 WHEEL
34	68	-69	0	0	0	0	0	0	0	0 TIRE
35	69	-66	-67	-71	-72	-73	-74	-75	0	0 WHEEL
36	78	-79	0	0	0	0	0	0	0	0 TIRE
37	79	-76	-77	-81	-82	-83	-84	-85	0	0 WHEEL
38	86	87	-7	-10	-34	-5	0	0	0	0 AIR HOSE
39	88	-112	-18	-19	-20	-21	-91	-92	-100	FLW
40 OR	89 OR	90	-16 OR	92 OR	91	-16	-100	0	0	0 BULKHD
41	93	-94	0	0	0	0	0	0	0	0 TRANS COVER
42	95	-96	-27	-112	0	0	0	0	0	0 TRANS COVER
43	97	0	0	0	0	0	0	0	0	0 TRANS COVER
44	98	0	0	0	0	0	0	0	0	0 TRANS U JNT
45	99	0	0	0	0	0	0	0	0	0 TRANS U JNT
46	100	-101	0	0	0	0	0	0	0	0 REAR PROP
47	102	0	0	0	0	0	0	0	0	0 U-JOINT
48	103	0	0	0	0	0	0	0	0	0 U-JOINT
49	104	0	0	0	0	0	0	0	0	0 REAR AXLE
50	105	0	0	0	0	0	0	0	0	0 REAR AXLE
51	106	107	0	0	0	0	0	0	0	0 H2O HOSE
52	50	0	0	0	0	0	0	0	0	0 DISC BRAKE
53	60	-39	0	0	0	0	0	0	0	0 DISC BRAKE
54	70	0	0	0	0	0	0	0	0	0 DISC BRAKE
55	80	-103	0	0	0	0	0	0	0	0 DISC BRAKE
56	114	112	-113	0	0	0	0	0	0	0 TUNNEL
57	108	0	0	0	0	0	0	0	0	0 SEAT
58	109	0	0	0	0	0	0	0	0	0 SEAT
59	110	0	0	0	0	0	0	0	0	0 SEAT
60	111	0	0	0	0	0	0	0	0	0 SEAT
61	115	-117	-130	-134	0	0	0	0	0	0 LOW LEG LT
62	116	-118	-131	-135	0	0	0	0	0	0 LOW LEG RT

TABLE C-2. REGION DATA FOR OPTION 2 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA								REMARKS
63	117	-130	-119	-121	0	0	0	0	0 UP LEG LT
64	118	-131	-120	-121	0	0	0	0	0 UP LEG RT
65	119	0	0	0	0	0	0	0	0 HIP JNT LT
66	120	0	0	0	0	0	0	0	0 HIP JNT RT
67	121	-119	-120	-122	0	0	0	0	0 HIPS
68	122	-123	0	0	0	0	0	0	0 TORSO LOW
69	123	0	0	0	0	0	0	0	0 TORSO UP
70	124	-132	-126	-138	0	0	0	0	0 ARM UP LT
71	125	-133	-127	-139	0	0	0	0	0 ARM UP RT
72	126	-132	0	0	0	0	0	0	0 ARM LOW LT
73	127	-133	0	0	0	0	0	0	0 ARM LOW RT
74	128	-123	0	0	0	0	0	0	0 NECK
75	129	-128	0	0	0	0	0	0	0 HEAD
76	130	0	0	0	0	0	0	0	0 KNEE LT
77	131	0	0	0	0	0	0	0	0 KNEE RT
78	132	0	0	0	0	0	0	0	0 ELBOW LT
79	133	0	0	0	0	0	0	0	0 ELBOW RT
80	134	0	0	0	0	0	0	0	0 ANKLE LT
81	135	0	0	0	0	0	0	0	0 ANKLE RT
82	136	-126	0	0	0	0	0	0	0 HAND LEFT
83	137	-127	-250	0	0	0	0	0	0 HAND RT
84	138	-123	0	0	0	0	0	0	0 SHLD JNT L
85	139	-123	0	0	0	0	0	0	0 SHLD JNT R
86	OR 166	OR 167	OR 168	OR 169	0	0	0	0	0 FUEL CELL
87	141	-143	-156	-160	0	0	0	0	0 LOW LEG LT
88	142	-144	-157	-161	0	0	0	0	0 LOW LEG RT
89	143	-156	-145	-147	0	0	0	0	0 UP LEG LT
90	144	-157	-146	-147	0	0	0	0	0 UP LEG RT
91	145	0	0	0	0	0	0	0	0 HIP JNT LT
92	146	0	0	0	0	0	0	0	0 HIP JNT RT
93	147	-145	-146	-148	0	0	0	0	0 HIPS

TABLE C-2. REGION DATA FOR OPTION 2 XR311 (CONTINUED)

145

REG NUM	REGION COMBINATION DATA												REMARKS
94	148	-149	0	0	0	0	0	0	0	0	0	0	TORSO LOW
95	149	0	0	0	0	0	0	0	0	0	0	0	TORSO UP
96	150	-158	-152	-164	0	0	0	0	0	0	0	0	ARM UP LT
97	151	-159	-153	-165	0	0	0	0	0	0	0	0	ARM UP RT
98	152	-158	0	0	0	0	0	0	0	0	0	0	ARM LOW LT
99	153	-159	0	0	0	0	0	0	0	0	0	0	ARM LOW RT
100	154	-149	0	0	0	0	0	0	0	0	0	0	NECK
101	155	-154	0	0	0	0	0	0	0	0	0	0	HEAD
102	156	0	0	0	0	0	0	0	0	0	0	0	KNEE LT
103	157	0	0	0	0	0	0	0	0	0	0	0	KNEE RT
104	158	0	0	0	0	0	0	0	0	0	0	0	ELBOW LT
105	159	0	0	0	0	0	0	0	0	0	0	0	ELBOW RT
106	160	0	0	0	0	0	0	0	0	0	0	0	ANKLE LT
107	161	0	0	0	0	0	0	0	0	0	0	0	ANKLE RT
108	162	-152	0	0	0	0	0	0	0	0	0	0	HAND LEFT
109	163	-153	0	0	0	0	0	0	0	0	0	0	HAND RIGHT
110	164	-149	0	0	0	0	0	0	0	0	0	0	SHLD JNT L
111	0	0	0	0	0	0	0	0	0	0	0	0	DUMMY
112	165	-149	0	0	0	0	0	0	0	0	0	0	SHLD JNT R
113 OR	170 OR	172 OR	174 OR	176 OR	178 OR	180 OR	243 OR	240	-170	FT TOP LF			
114	181	-218	0	0	0	0	0	0	0	F BUMPER			
115 OR	202 OR	184 OR	186 OR	188 OR	190 OR	192 OR	198 OR	200 OR	182	LEFT SIDE			
	-180	0	0	0	0	0	0	0	0				
116 OR	203 OR	185 OR	187 OR	189 OR	191 OR	193 OR	199 OR	201 OR	183	RIGHT SIDE			
	-179	0	0	0	0	0	0	0	0				
117	194	-192	-88	-214	-92	0	0	0	0	ROCKER LFT			
118	195	-193	-88	-215	-92	0	0	0	0	ROCKER RGT			
119	196	-197	0	0	0	0	0	0	0	REAR BUMPER			
120 OR	206 OR	207 OR	204	-202 OR	205	-203	0	0	0	R SHT MET			
121 OR	208 OR	209 OR	210 OR	211 OR	212 OR	213	0	0	0	FLOOR SKID			
122 OR	214 OR	215 OR	217	-28 OR	216	-28	0	0	0	BULKHEAD			

TABLE C-2. REGION DATA FOR OPTION 2 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA										REMARKS	
123	219	-220	0	0	0	0	0	0	0	0	0	ENG DECK
124	221	223	0	0	0	0	0	0	0	0	0	ROLL BAR
125	222	224	0	0	0	0	0	0	0	0	0	ROLL BAR
126	226	-223	0	0	0	0	0	0	0	0	0	ROLL BAR
127	227	-224	0	0	0	0	0	0	0	0	0	ROLL BAR
128	398	-226	-227	-225	0	0	0	0	0	0	0	WINDSHIELD
129	399	0	0	0	0	0	0	0	0	0	0	ARMOR FT TP
130	400	0	0	0	0	0	0	0	0	0	0	ARMOR ROOF
131	OR 244	OR 171	CR 173	OR 175	OR 177	OR 179	OR 242	OR 241	-244	FT TOP RT		
132	401	0	0	0	0	0	0	0	0	0	0	ARMOR REAR
133	402	403	-404	0	0	0	0	0	0	0	0	ROOF ARMOR
134	245	246	0	0	0	0	0	0	0	0	0	HEADLIGHT
135	247	248	0	0	0	0	0	0	0	0	0	HEADLIGHT
136	249	0	0	0	0	0	0	0	0	0	0	STEERING C
137	250	0	0	0	0	0	0	0	0	0	0	STEERING W
138	251	-235	-234	0	0	0	0	0	0	0	0	ENG TP DC
139	252	0	0	0	0	0	0	0	0	0	0	BATTERY
140	253	0	0	0	0	0	0	0	0	0	0	BATTERY
141	405	-251	-93	-16	0	0	0	0	0	0	0	PEDESTAL
142	256	0	0	0	0	0	0	0	0	0	0	GRC160 RADI
143	257	0	0	0	0	0	0	0	0	0	0	GUIDANCE
144	OR 262	OR 258	-259	-260	-261	0	0	0	0	0	0	TOW MOUNT
145	OR 265	-266	OR 267	-268	-271	0	0	0	0	0	0	MISSILE SKN
146	269	0	0	0	0	0	0	0	0	0	0	LAUNCH MOTR
147	OR 270	OR 271	272	0	0	0	0	0	0	0	0	FLIGHT MOTR
148	274	-273	-275	0	0	0	0	0	0	0	0	WARHEAD NSE
149	OR 268	-272	OR 273	0	0	0	0	0	0	0	0	WARHEAD
150	266	-269	0	0	0	0	0	0	0	0	0	MISCL - AFT
151	276	-277	0	0	0	0	0	0	0	0	0	MISSILE CAS
152	OR 278	OR 279	OR 280	OR 281	0	0	0	0	0	0	0	SIGHT
153	282	-283	-288	0	0	0	0	0	0	0	0	LAUNCHER

TABLE C-2. REGION DATA FOR OPTION 2 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
154	284	-285	0	0	0	0	0	0	0	0 LAUNCHER
155	286	-287	0	0	0	0	0	0	0	0 LAUNCHER
156	289	-148	-149	-154	-164	-165	-150	-151	0	0 BODY ARMOR
	-158	-159	-152	-153	0	0	0	0	0	0
157	290	-122	-123	-128	-138	-139	-124	-125	0	0 BODY ARMOR
	-132	-133	-126	-127	0	0	0	0	0	0
158 OR	291 OR	292 OR	293 OR	294 OR	295 OR	296	0	0	0	0 NIGHT SIGH
159 OR	297	-298 OR	299	-300	-303	0	0	0	0	0 MISSILE SKN
160	301	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
161 OR	302 OR	303	304	0	0	0	0	0	0	0 FLIGHT MOTR
162	306	-305	-307	0	0	0	0	0	0	0 WARHEAD NSE
163 OR	300	-304 OR	305	0	0	0	0	0	0	0 WARHEAD
164	298	-301	0	0	0	0	0	0	0	0 MISCL - AFT
165	308	-309	0	0	0	0	0	0	0	0 MISSILE CAS
166 OR	310	-311 OR	312	-313	-316	0	0	0	0	0 MISSILE SKN
167	314	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
168 OR	315 OR	316	317	0	0	0	0	0	0	0 FLIGHT MOTR
169	319	-318	-320	0	0	0	0	0	0	0 WARHEAD NSE
170 OR	313	-317 OR	318	0	0	0	0	0	0	0 WARHEAD
171	311	-314	0	0	0	0	0	0	0	0 MISCL - AFT
172	321	-322	0	0	0	0	0	0	0	0 MISSILE CAS
173 OR	323	-324 OR	325	-326	-329	0	0	0	0	0 MISSILE SKN
174	327	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
175 OR	328 OR	329	330	0	0	0	0	0	0	0 FLIGHT MOTR
176	332	-331	-333	0	0	0	0	0	0	0 WARHEAD NSE
177 OR	326	-330 OR	331	0	0	0	0	0	0	0 WARHEAD
178	324	-327	0	0	0	0	0	0	0	0 MISCL - AFT
179	334	-335	0	0	0	0	0	0	0	0 MISSILE CAS
180 OR	336	-337 OR	338	-339	-342	0	0	0	0	0 MISSILE SKN
181	340	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
182 OR	341 OR	342	343	0	0	0	0	0	0	0 FLIGHT MOTR

TABLE C-2. REGION DATA FOR OPTION 2 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
183	345	-344	-346	0	0	0	0	0	0	0 WARHEAD NSE
184	OR 339	-343	OR 344	0	0	0	0	0	0	0 WARHEAD
185	337	-340	0	0	0	0	0	0	0	0 MISCL - AFT
186	347	-348	0	0	0	0	0	0	0	0 MISSILE CAS
187	349	-351	-364	-368	-95	-93	0	0	0	0 LOW LEG LT
188	350	-352	-365	-369	0	0	0	0	0	0 LOW LEG RT
189	351	-364	-353	-355	-109	0	0	0	0	0 UP LEG LT
190	352	-365	-354	-355	0	0	0	0	0	0 UP LEG RT
191	353	0	0	0	0	0	0	0	0	0 HIP JNT LT
192	354	0	0	0	0	0	0	0	0	0 HIP JNT RT
193	355	-353	-354	-356	0	0	0	0	0	0 HIPS
194	356	-357	0	0	0	0	0	0	0	0 TORSO LOW
195	357	0	0	0	0	0	0	0	0	0 TORSO UP
196	358	-366	-360	-372	0	0	0	0	0	0 ARM UP LT
197	359	-367	-361	-373	-276	0	0	0	0	0 ARM UP RT
198	360	-366	0	0	0	0	0	0	0	0 ARM LOW LT
199	361	-367	0	0	0	0	0	0	0	0 ARM LOW RT
200	362	-357	0	0	0	0	0	0	0	0 NECK
201	363	-362	0	0	0	0	0	0	0	0 HEAD
202	364	-93	0	0	0	0	0	0	0	0 KNEE LT
203	365	0	0	0	0	0	0	0	0	0 KNEE RT
204	366	0	0	0	0	0	0	0	0	0 ELBOW LT
205	367	0	0	0	0	0	0	0	0	0 ELBOW RT
206	368	0	0	0	0	0	0	0	0	0 ANKLE LT
207	369	0	0	0	0	0	0	0	0	0 ANKLE RT
208	370	-360	0	0	0	0	0	0	0	0 HAND LT
209	371	-361	0	0	0	0	0	0	0	0 HAND RT
210	372	-357	0	0	0	0	0	0	0	0 SHLD JNT L
211	373	-357	-276	0	0	0	0	0	0	0 SHLD JNT
212	374	0	0	0	0	0	0	0	0	0 STARTER
213	OR 375	OR 376	0	0	0	0	0	0	0	0 CABLE

TABLE C-2. REGION DATA FOR OPTION 2 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA										REMARKS	
214	OR	377	OR	378	OR	379	0	0	0	0	0	0 GAS LN
215	OR	380		-381	OR	382	-383	-386	0	0	0	0 MISSILE SKN
216		384		0		0	0	0	0	0	0	0 LAUNCH MOT
217	OR	385	OR	386		387	0	0	0	0	0	0 FLIGHT MOT
218		389		-388		-390	0	0	0	0	0	0 WARHEAD NOS
219	OR	383		-387	OR	388	0	0	0	0	0	0 WARHEAD
220		381		-384		0	0	0	0	0	0	0 MISCL AFT
221		391		-392		0	0	0	0	0	0	0 MISSILE CAS
222	OR	393	OR	394	OR	395	OR	396	0	0	0	0 TRIPOD
223		397		-356		-357	-358	-359	-360	-361	-362	0
		-366		-367		-372	-373	0	0	0	0	0

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
1	9701	0	OIL SUMP	1	2
2	9702	0	ENGINE BLOCK	4	55
3	9703	0	INTAKE MANIFOLD	4	20
4	9704	0	CARBURATOR	5	50
5	9705	0	OIL FILTER	1	2
6	9706	0	WATER PUMP	4	30
7	9707	0	AIR FILTER	1	2
8	9708	0	FUEL PUMP	5	30
9	9709	0	FUEL FILTER	5	5
10	9710	0	ENGINE RADIATOR	7	15
11	9711	0	TRAN HOUSEING (HOLLOW)	4	90
12	9712	0	AUTOMATIC TRANSMISSION	5	40
13	9713	0	FRONT DIFFERENTIAL	1	50
14	9714	0	FNT PROPELLER SHAFT U-JOINT	1	55
15	9715	0	FNT TRANSMISSION U-JOINT	1	55
16	9716	0	FNT PROPELLER SHAFT (HOLLOW)	1	15
17	9717	0	LEFT FNT DIFFERENTIAL U-JOINT	1	55
18	9718	0	RIGHT FNT DIFFERENTIAL U-JOINT	1	55
19	9719	0	LEFT ROCKER ARM COVER	1	2
20	9720	0	RIGHT ROCKER ARM COVER	1	2
21	9721	0	DISTRIBUTOR	5	30
22	9722	0	IGNITION COIL	1	5
23	9723	0	LEFT FRONT AXLE	1	100
24	9724	0	LEFT FNT WHEEL U-JOINT	1	55
25	9725	0	RIGHT FRONT AXLE	1	100
26	9726	0	RIGHT FNT WHEEL U-JOINT	1	55
27	9727	0	REAR DIFFERENTIAL	1	50
28	9728	0	REAR LEFT DIFFERENTIAL U-JOINT	1	55
29	9729	0	REAR RIGHT DIFFERENTIAL U-JOINT	1	55
30	8737	0	TIRE	18	25
31	9737	0	WHEEL	1	50

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
32	8737	0	TIRE	18	25
33	9737	0	WHEEL	1	50
34	8737	0	TIRE	18	25
35	9737	0	WHEEL	1	50
36	8737	0	TIRE	18	25
37	9737	0	WHEEL	1	50
38	8704	0	AIR CLEANER HOSE	18	5
39	9112	0	CHASSIS BODY FLOOR	1	49
40	9113	0	ENGINE COMPARTMENT BULKHEAD	1	100
41	9114	0	TRANSMISSION COVER	1	49
42	9114	0	TRANSMISSION COVER	1	49
43	9114	0	TRANSMISSION COVER TOP	1	49
44	9730	0	TRANSMISSION REAR U-JOINT	1	55
45	9731	0	REAR DIFFERENTIAL U-JOINT	1	55
46	9736	0	REAR PROP	1	15
47	9732	0	REAR WHEEL U-JOINT	1	55
48	9733	0	REAR WHEEL U-JOINT	1	55
49	9734	0	REAR AXLE	1	100
50	9735	0	REAR AXLE	1	100
51	9651	0	RADIATOR WATER HOSE	18	5
52	9402	0	DISC BRAKE ROTOR	1	100
53	9403	0	DISC BRAKE ROTOR	1	100
54	9404	0	DISC BRAKE ROTOR	1	100
55	9405	0	DISC BRAKE ROTOR	1	100
56	9756	0	DRIVE TRAIN TUNNEL	1	49
57	9752	0	SEAT	18	100
58	9752	0	SEAT	18	100
59	9752	0	SEAT	18	100
60	9752	0	SEAT	18	100
61	9810	0	LOWER LEG LEFT DRIVER	28	100
62	9811	0	LOWER LEG RIGHT DRIVER	28	100

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
63	9812	0	UPPER LEG LEFT	DRIVER	28	100
64	9813	0	UPPER LEG RIGHT	DRIVER	28	100
65	9814	0	HIP JOINT LEFT	DRIVER	28	100
66	9815	0	HIP JOINT RIGHT	DRIVER	28	100
67	9816	0	HIPS	DRIVER	28	100
68	9817	0	TORSO LOWER	DRIVER	28	100
69	9818	0	TORSO CHEST	DRIVER	28	100
70	9819	0	UPPER ARM LEFT	DRIVER	28	100
71	9820	0	UPPER ARM RIGHT	DRIVER	28	100
72	9821	0	LOWER ARM LEFT	DRIVER	28	100
73	9822	0	LOWER ARM RIGHT	DRIVER	28	100
74	9823	0	NECK	DRIVER	28	100
75	9824	0	HEAD	DRIVER	28	100
76	9825	0	KNEE LEFT	DRIVER	28	100
77	9826	0	KNEE RIGHT	DRIVER	28	100
78	9827	0	ELBOW LEFT	DRIVER	28	100
79	9828	0	ELBOW RIGHT	DRIVER	28	100
80	9829	0	ANKLE LEFT	DRIVER	28	100
81	9830	0	ANKLE RIGHT	DRIVER	28	100
82	9831	0	HAND LEFT	DRIVER	28	100
83	9832	0	HAND RIGHT	DRIVER	28	100
84	9833	0	SHOULDER JOINT LEFT	DRIVER	28	100
85	9834	0	SHOULDER JOINT RIGHT	DRIVER	28	100
86	9760	0	FUEL CELL		13	5
87	8910	0	LOWER LEG LEFT	LOADER	28	100
88	8911	0	LOWER LEG RIGHT	LOADER	28	100
89	8912	0	UPPER LEG LEFT	LOADER	28	100
90	8913	0	UPPER LEG RIGHT	LOADER	28	100
91	8914	0	HIP JOINT LEFT	LOADER	28	100
92	8915	0	HIP JOINT RIGHT	LOADER	28	100
93	8916	0	HIPS	LOADER	28	100

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
94	8917	0	TORSO LOWER	LOADER	28	100
95	8918	0	TORSO CHEST	LOADER	28	100
96	8919	0	UPPER ARM LEFT	LOADER	28	100
97	8920	0	UPPER ARM RIGHT	LOADER	28	100
98	8921	0	LOWER ARM LEFT	LOADER	28	100
99	8922	0	LOWER ARM RIGHT	LOADER	28	100
100	8923	0	NECK	LOADER	28	100
101	8924	0	HEAD	LOADER	28	100
102	8925	0	KNEE LEFT	LOADER	28	100
103	8926	0	KNEE RIGHT	LOADER	28	100
104	8927	0	ELBOW LEFT	LOADER	28	100
105	8928	0	ELBOW RIGHT	LOADER	28	100
106	8929	0	ANKLE LEFT	LOADER	28	100
107	8930	0	ANKLE RIGHT	LOADER	28	100
108	8931	0	HAND LEFT	LOADER	28	100
109	8932	0	HAND RIGHT	LOADER	28	100
110	8933	0	SHOULDER JOINT LEFT	LOADER	28	100
111	0	0	DUMMY		0	0
112	8934	0	SHOULDER JOINT RIGHT	LOADER	28	100
113	9101	0	XR 311 FRONT SHEET METAL TOP		1	49
114	9102	0	FRONT BUMPER		1	100
115	9103	0	SHEET METAL LEFT SIDE		1	49
116	9104	0	SHEET METAL RIGHT SIDE		1	49
117	9105	0	LEFT ROCKER PANEL		1	49
118	9105	0	RIGHT ROCKER PANEL		1	49
119	9102	0	REAR BUMPER		1	100
120	9106	0	REAR SHEET METAL		1	49
121	9109	0	FLOOR SKID		1	100
122	9107	0	FORWARD BULKHEAD		1	100
123	9108	0	ENGINE DECK SHEET METAL		1	49
124	9149	0	ROLL BAR CORNER		1	17

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
125	9150	0	ROLL BAR CORNER	1	17
126	9151	0	ROLL BAR SIDE	1	17
127	9152	0	ROLL BAR SIDE	1	17
128	8227	0	WINDSHIELD ARMOR	12	79
129	8228	0	FRONT TOP ARMOR	12	79
130	8230	0	ROOF ARMOR	12	79
131	9156	0	FRONT HOOD	1	49
132	8232	0	REAR ARMOR	12	79
133	8233	0	ROOF REAR TOP ARMO	12	79
134	9761	0	HEADLIGHT	1	2
135	9761	0	HEADLIGHT	1	2
136	9762	0	STEERING COLUMN	1	15
137	8762	0	STEERING WHEEL	18	100
138	9115	0	FRONT TOP ENGINE DECK	1	49
139	9763	0	BATTERY	8	38
140	9763	0	BATTERY	8	38
141	9641	0	PEDESTAL MOUNT	1	55
142	9642	0	RADIO GRC 160	1	24
143	9643	0	TOW GUIDANCE SET	5	21
144	9406	0	TOW TRAVERSE MOUNT	5	60
145	7300	0	MISSILE SKIN	5	100
146	7301	0	LAUNCH MOTOR	2	32
147	7302	0	FLIGHT MOTOR SECTION	2	23
148	7303	0	WARHEAD NOSE	5	100
149	7304	0	WARHEAD SECTION	5	55
150	7305	0	MISCELLANEOUS COMPONENTS	5	23
151	7306	0	MISSILE CASE	16	99
152	9500	0	DAY SIGHT	5	40
153	9510	0	TOW LAUNCHER TUBE	5	99
154	9511	0	TOW LAUNCHER TUBE	5	99
155	9512	0	TOW LAUNCHER TUBE	5	99

FIRE

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
156	9801	0	CREW BODY ARMOR	12	99
157	9801	0	CREW BODY ARMOR	12	99
158	9802	0	NIGHT SIGHT (STOWED)	5	80
159	9300	0	MISSILE SKIN	5	100
160	9301	0	LAUNCH MOTOR	2	32
161	9302	0	FLIGHT MOTOR SECTION	2	23
162	9303	0	WARHEAD NOSE	5	100
163	9304	0	WARHEAD SECTION	5	55
164	9305	0	MISCELLANEOUS COMPONENTS	5	23
165	9306	0	MISSILE CASE	16	99
166	9300	0	MISSILE SKIN	5	100
167	9301	0	LAUNCH MOTOR	2	32
168	9302	0	FLIGHT MOTOR SECTION	2	23
169	9303	0	WARHEAD NOSE	5	100
170	9304	0	WARHEAD SECTION	5	55
171	9305	0	MISCELLANEOUS COMPONENTS	5	23
172	9306	0	MISSILE CASE	16	99
173	9300	0	MISSILE SKIN	5	100
174	9301	0	LAUNCH MOTOR	2	32
175	9302	0	FLIGHT MOTOR SECTION	2	23
176	9303	0	WARHEAD NOSE	5	100
177	9304	0	WARHEAD SECTION	5	55
178	9305	0	MISCELLANEOUS COMPONENTS	5	23
179	9306	0	MISSILE CASE	16	99
180	9300	0	MISSILE SKIN	5	100
181	9301	0	LAUNCH MOTOR	2	32
182	9302	0	FLIGHT MOTOR SECTION	2	23
183	9303	0	WARHEAD NOSE	5	100
184	9304	0	WARHEAD SECTION	5	55
185	9305	0	MISCELLANEOUS COMPONENTS	5	23
186	9306	0	MISSILE CASE	16	99

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
187	8810	0	LOWER LEG LEFT	GUNNER	28	100
188	8811	0	LOWER LEG RIGHT	GUNNER	28	100
189	8812	0	UPPER LEG LEFT	GUNNER	28	100
190	8813	0	UPPER LEG RIGHT	GUNNER	28	100
191	8814	0	HIP JOINT LEFT	GUNNER	28	100
192	8815	0	HIP JOINT RIGHT	GUNNER	28	100
193	8816	0	HIPS	GUNNER	28	100
194	8817	0	TORSO LOWER	GUNNER	28	100
195	8818	0	TORSO CHEST	GUNNER	28	100
196	8819	0	UPPER ARM LEFT	GUNNER	28	100
197	8820	0	UPPER ARM RIGHT	GUNNER	28	100
198	8821	0	LOWER ARM LEFT	GUNNER	28	100
199	8822	0	LOWER ARM RIGHT	GUNNER	28	100
200	8823	0	NECK	GUNNER	28	100
201	8824	0	HEAD	GUNNER	28	100
202	8825	0	KNEE LEFT	GUNNER	28	100
203	8826	0	KNEE RIGHT	GUNNER	28	100
204	8827	0	ELBOW LEFT	GUNNER	28	100
205	8828	0	ELBOW RIGHT	GUNNER	28	100
206	8829	0	ANKLE LEFT	GUNNER	28	100
207	8830	0	ANKLE RIGHT	GUNNER	28	100
208	8831	0	HAND LEFT	GUNNER	28	100
209	8832	0	HAND RIGHT	GUNNER	28	100
210	8833	0	SHOULDER JOINT LEFT	GUNNER	28	100
211	8834	0	SHOULDER JOINT RIGHT	GUNNER	28	100
212	9738	0	STARTER MOTOR		1	45
213	9739	0	STARTER CABLE		7	99
214	9740	0	GAS LINES		1	20
215	8300	0	MISSILE SKIN	(READY)	5	100
216	8301	0	LAUNCH MOTOR	(READY)	2	32
217	8302	0	FLIGHT MOTOR SECTION	(READY)	2	23

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 2 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
218	8303	0	WARHEAD NOSE (READY)	5	100
219	8304	0	WARHEAD SECTION (READY)	5	55
220	8305	0	MISCELLANEOUS COMPONENTS (READY)	5	23
221	8306	0	MISSILE CASE	16	99
222	8307	0	TOW TRIPOD	5	60
223	9801	0	BODY ARMOR	12	99

APPENDIX D
OPTION 3 XR311-TOW DESCRIPTION LISTING

TABLE D-1. SOLID DATA FOR OPTION 3 XR311

161

SOLID NUM TYPE			SOLID PARAMETERS				REMARKS	
1	ARB8	983.0017	-54.9988	434.0013	983.0017	-170.0003	434.0013	
		983.0017	-170.0003	597.0014	983.0017	-30.0001	574.9998	
		1271.0032	-54.9988	434.0013	1271.0032	-170.0003	434.0013	
		1271.0032	-170.0003	597.0014	1271.0032	-30.0001	574.9998	
2	ARB8	983.0017	-30.0001	574.9998	983.0017	-170.0003	597.0014	
		983.0017	-74.9989	651.0020	983.0017	145.9998	574.9998	
		1271.0032	-30.0001	574.9998	1271.0032	-170.0003	597.0014	
		1271.0032	-74.9989	651.0020	1271.0032	145.9998	574.9998	
3	ARB8	983.0017	145.9998	574.9998	983.0017	-74.9989	651.0020	
		983.0017	-74.9989	714.0019	983.0017	145.9998	714.0019	
		1271.0032	145.9998	574.9998	1271.0032	-74.9989	651.0020	
		1271.0032	-74.9989	714.0019	1271.0032	145.9998	714.0019	
4	ARS	4	9	0				
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	831.0024	31.0008	906.0012	
		831.0024	31.0008	906.0012	0.0000	0.0000	0.0000	
		831.0024	161.9993	714.0019	831.0024	286.0000	991.0027	
		831.0024	180.0003	1041.0028	831.0024	134.9990	991.0027	
		831.0024	-54.9988	991.0027	831.0024	-105.9997	1041.0028	
		831.0024	-215.9999	991.0027	831.0024	-105.9997	714.0019	
		831.0024	161.9993	714.0019	0.0000	0.0000	0.0000	
		1316.0020	161.9993	714.0019	1316.0020	286.0000	991.0027	
		1316.0020	180.0003	1041.0028	1316.0020	134.9990	991.0027	
		1316.0020	-54.9988	991.0027	1316.0020	-105.9997	1041.0028	
		1316.0020	-215.9999	991.0027	1316.0020	-105.9997	714.0019	
		1316.0020	161.9993	714.0019	0.0000	0.0000	0.0000	
		1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
		1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
		1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	1316.0020	31.0008	906.0012	1316.0020	31.0008	906.0012	
	1316.0020	31.0008	906.0012	0.0000	0.0000	0.0000	
5 ARBB	831.0024	134.9990	991.0027	831.0024	34.0006	991.0027	
	831.0024	34.0006	1094.0026	831.0024	180.0003	1041.0028	
	1271.0032	134.9990	991.0027	1271.0032	34.0006	991.0027	
	1271.0032	34.0006	1094.0026	1271.0032	180.0003	1041.0028	
6 ARBB	831.0024	34.0006	991.0027	831.0024	-54.9988	991.0027	
	831.0024	-105.9997	1041.0028	831.0024	34.0006	1094.0026	
	1271.0032	34.0006	991.0027	1271.0032	-54.9988	991.0027	
	1271.0032	-105.9997	1041.0028	1271.0032	34.0006	1094.0026	
7 RCC	1067.0023	34.0006	1094.0026	0.0000	0.0000	58.0011	
	54.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
8 RCC	1271.0032	214.0009	766.0010	0.0000	102.9999	-98.0012	
	58.0011	0.0000	0.0000	0.0000	0.0000	0.0000	
9 RCC	712.0004	34.0006	906.0012	118.9999	0.0000	0.0000	
	81.9991	0.0000	0.0000	0.0000	0.0000	0.0000	
10 RCC	1478.0039	707.0016	939.0011	0.0000	-421.0016	0.0000	
	118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
11 RCC	767.0017	228.9997	799.0008	0.0000	0.0000	30.0001	
	44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
12 RCC	1339.0018	410.0008	1116.0017	-22.9998	0.0000	-102.9999	
	42.9998	0.0000	0.0000	0.0000	0.0000	0.0000	
13 ARBB	373.0005	338.9999	1250.0024	373.0005	-334.0012	1250.0024	
	278.9998	-334.0012	1235.0011	278.9998	338.9999	1235.0011	
	488.0020	338.9999	504.9997	488.0020	-334.0012	504.9997	
	394.0013	-334.0012	490.0009	394.0013	338.9999	490.0009	
14 TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN ID
	0.0000	0.0000	264.9992	0.0000	-200.0004	0.0000	
	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
15 TEC	1316.0020	48.9993	714.0019	280.0005	0.0000	0.0000	TRAN ID
	0.0000	0.0000	258.9997	0.0000	-194.0009	0.0000	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
16 TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
	0.0000	0.0000	133.0000	0.0000	-100.0002	0.0000	
	1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
17 TEC	1596.0026	48.9993	714.0019	161.9993	0.0000	0.0000	
	0.0000	0.0000	127.0005	0.0000	-94.0007	0.0000	
	1.3000	0.0000	0.0000	0.0000	0.0000	0.0000	
18 RCC	1758.0044	48.9993	714.0019	264.9994	0.0000	0.0000	TRANS
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
19 RCC	1927.0040	148.0013	504.9997	254.9992	0.0000	0.0000	
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
20 RCC	1994.0044	148.0013	504.9997	128.9995	0.0000	0.0000	
	125.9997	0.0000	0.0000	0.0000	0.0000	0.0000	
21 BOX	1994.0044	193.0001	526.0005	0.0000	-98.0012	208.9996	
	0.0000	-90.0002	-41.9991	128.9995	0.0000	0.0000	
22 RCC	3898.0086	0.0000	434.0013	-100.0002	0.0000	0.0000	DIFF
	118.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
23 SPH	3856.0070	0.0000	434.0013	114.9990	0.0000	0.0000	DIFF
24 RCC	3608.0080	0.0000	458.0019	50.0001	0.0000	0.0000	DIFF
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
25 TRC	3798.0084	0.0000	434.0013	-140.0003	0.0000	0.0000	DIFF
	118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
26 SPH	3568.0079	0.0000	434.0013	40.0001	0.0000	0.0000	U-JOINT
27 SPH	2234.0048	148.0013	504.9997	40.0001	0.0000	0.0000	U-JOINT
28 RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
29 RCC	2275.0031	148.0013	504.9997	1260.0024	-148.0013	-47.0003	PROP
	34.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
30 SPH	3856.0070	188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
31 SPH	3856.0070	-188.0014	434.0013	40.0001	0.0000	0.0000	U-JOINT
32 BOX	861.0024	286.0000	991.0027	0.0000	38.3999	81.3997	L COVER

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	0.0000	-105.9997	50.0001	424.9996	0.0000	0.0000	
33 BOX	861.0024	-215.9999	991.0027	0.0000	-38.3999	81.3997	R COVER
	0.0000	105.9997	50.0001	424.9996	0.0000	0.0000	
34 RCC	1316.0020	34.0006	991.0027	0.0000	0.0000	90.0002	DIST
	44.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
35 RCC	1301.0033	140.0003	991.0027	0.0000	0.0000	140.0003	COIL
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
36 RCC	3856.0070	228.0015	434.0013	-22.9998	406.0003	-18.0011	L AXLE
	14.9985	0.0000	0.0000	0.0000	0.0000	0.0000	
37 SPH	3833.0072	674.0018	416.0003	40.0001	0.0000	0.0000	U-JOINT
38 RCC	3856.0070	-228.0015	434.0013	-22.9998	-406.0003	-18.0011	R AXLE
	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
39 SPH	3833.0072	-674.0018	416.0003	40.0001	0.0000	0.0000	U-JOINT
40 RCC	796.0010	0.0000	458.0019	-100.0002	0.0000	0.0000	R DIFF
	148.0013	0.0000	0.0000	0.0000	0.0000	0.0000	
41 SPH	742.0004	0.0000	458.0019	114.9990	0.0000	0.0000	
42 TRC	796.0010	0.0000	458.0019	140.0003	0.0000	0.0000	
	118.0012	47.0003	0.0000	0.0000	0.0000	0.0000	
43 RCC	936.0013	0.0000	458.0019	50.0001	0.0000	0.0000	
	47.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
44 SPH	746.0009	188.0014	458.0019	40.0001	0.0000	0.0000	
45 SPH	746.0009	-188.0014	458.0019	40.0001	0.0000	0.0000	
46 TRC	3833.0072	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
47 TRC	3833.0072	942.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
48 TOR	3833.0072	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
49 RCC	3833.0072	666.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
50 RCC	3833.0072	714.0019	416.0003	0.0000	11.9990	0.0000	DISC

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
51 RCC	3748.0083	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
52 RCC	3806.7409	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
53 RCC	3901.7729	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
54 RCC	3901.7729	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
55 RCC	3806.7409	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
56 TRC	3833.0072	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
57 TRC	3833.0072	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
58 TOR	3833.0072	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
59 RCC	3833.0072	-942.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
60 RCC	3833.0072	-714.0019	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
61 RCC	3748.0083	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
62 RCC	3806.7409	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
63 RCC	3901.7729	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
64 RCC	3901.7729	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
65 RCC	3806.7409	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
66 TRC	767.0017	666.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
67 TRC	767.0017	942.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
68 TUR	767.0017	804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
69 RCC	767.0017	666.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
70 RCC	767.0017	764.0020	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
71 RCC	682.0003	784.0020	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
72 RCC	740.7355	784.0020	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
73 RCC	835.7674	784.0020	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
74 RCC	835.7674	784.0020	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
75 RCC	740.7355	784.0020	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
76 TRC	767.0017	-942.0008	416.0003	0.0000	131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
77 TRC	767.0017	-666.0008	416.0003	0.0000	-131.9992	0.0000	WHEEL HALF
	218.0014	138.0013	0.0000	0.0000	0.0000	0.0000	
78 TUR	767.0017	-804.0021	416.0003	0.0000	1.0008	0.0000	TIRE
	293.0003	154.9990	0.0000	0.0000	0.0000	0.0000	
79 RCC	767.0017	-942.0008	416.0003	0.0000	276.0000	0.0000	
	218.0014	0.0000	0.0000	0.0000	0.0000	0.0000	
80 RCC	767.0017	-764.0020	416.0003	0.0000	11.9990	0.0000	DISC
	120.0002	0.0000	0.0000	0.0000	0.0000	0.0000	ROTOR
81 RCC	682.0003	-824.0021	416.0003	0.0000	40.0001	0.0000	WHEEL HOLE

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
82 RCC	740.7355	-824.0021	335.1594	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
83 RCC	835.7674	-824.0021	366.0383	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
84 RCC	835.7674	-824.0021	465.9623	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
85 RCC	740.7355	-824.0021	496.8412	0.0000	40.0001	0.0000	WHEEL HOLE
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
86 TGR	1120.0022	220.0004	902.0007	0.0000	10.0000	8.0010	AIR HOSE
	310.0006	30.0001	0.0000	0.0000	0.0000	0.0000	
87 ARB8	1150.0022	366.0002	840.0016	1060.0021	0.0000	840.0016	AIR HOSE
	1500.0029	0.0000	840.0016	1500.0029	280.0005	840.0016	
	1150.0022	366.0002	1200.0023	1060.0021	0.0000	1200.0023	
	1500.0029	0.0000	1200.0023	1500.0029	280.0005	1200.0023	
88 RPP	1380.0027	3211.0070	-843.0014	843.0014	450.0009	451.9999	FLOOR CENT
89 ARB8	1628.0042	-890.0017	1123.0019	1628.0042	890.0017	1123.0019	ENG COMPT
	1628.0042	914.0023	1031.0028	1628.0042	-914.0023	1031.0028	BULKHEAD
	1626.0026	-890.0017	1123.0019	1626.0026	890.0017	1123.0019	TOP
	1626.0026	914.0023	1031.0028	1626.0026	-914.0023	1031.0028	
90 RPP	1626.0026	1628.0042	-914.0023	914.0023	837.0019	1031.0028	ENG COMPT
91 ARB8	1628.0042	-914.0023	837.0019	1628.0042	914.0023	837.0019	ENG COMPT
	1628.0042	840.0016	451.9999	1628.0042	-840.0016	451.9999	LOWER CENT
	1626.0026	-914.0023	837.0019	1626.0026	914.0023	837.0019	BULKHEAD
	1626.0026	840.0016	451.9999	1626.0026	-840.0016	451.9999	
92 ARB8	1628.0042	-840.0016	451.9999	1628.0042	840.0016	451.9999	ENG COMPT
	1628.0042	716.0009	369.0000	1628.0042	-716.0009	369.0000	LOWER
	1626.0026	-840.0016	451.9999	1626.0026	840.0016	451.9999	BULKHEAD
	1626.0026	716.0009	369.0000	1626.0026	-716.0009	369.0000	
93 ARB8	2200.0043	147.0005	752.0004	1630.0032	147.0005	752.0004	TRANS
	1630.0032	-52.9998	752.0004	2200.0043	-52.9998	752.0004	COVER

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
94 ARB8	2147.0044	147.0005	890.0017	1630.0032	147.0005	890.0017	
	1630.0032	-52.9998	890.0017	2147.0044	-52.9998	890.0017	
	2197.8630	144.9990	752.0004	1630.0032	144.9990	752.0004	TRANS
	1630.0032	-51.9991	752.0004	2197.8630	-51.9991	752.0004	COVER
	2145.6303	144.9990	888.0027	1630.0032	144.9990	888.0027	
95 RPP	1630.0032	-51.9991	888.0027	2145.6303	-51.9991	888.0027	
	1630.0032	2200.0043	-52.9998	277.0008	451.9999	752.0004	TRANS
	1630.0032	2198.0053	-51.9991	274.9993	451.9999	752.0004	TRANS
97 RPP	1630.0032	2200.0043	147.0005	277.0008	752.0004	754.0020	TRANS TOP
98 SPH	1387.0039	148.0013	504.9997	40.0001	0.0000	0.0000	R TRANS U
99 SPH	976.0014	0.0000	458.0019	40.0001	0.0000	0.0000	R TRANS U
100 RCC	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
101 RCC	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
	1016.0015	0.0000	458.0019	831.0024	148.0013	47.0003	R PROP OD
	34.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
102 SPH	767.0017	723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
103 SPH	767.0017	-723.0011	416.0003	40.0001	0.0000	0.0000	R WH U-JNT
104 RCC	746.0009	228.0015	458.0019	0.0000	454.9996	-41.9991	RR AXLE
105 RCC	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
	746.0009	-228.0015	458.0019	0.0000	-454.9996	-41.9991	RR AXLE
	14.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
106 TOR	573.0021	170.0003	740.0014	14.0005	30.0001	0.0000	H2O HOSE
107 RPP	500.0010	30.0001	0.0000	0.0000	0.0000	0.0000	
	373.0005	923.0015	-20.0000	300.0006	1090.0021	1270.0025	H2O HOSE
	2642.0041	801.0023	627.0015	2287.0047	801.0023	557.0013	SEAT
108 ARB8	2287.0047	294.9993	557.0013	2642.0041	294.9993	627.0015	
109 ARB8	2661.3514	801.0023	528.8910	2306.3494	801.0023	458.8909	
	2306.3494	294.9993	458.8909	2661.3514	294.9993	528.8910	
	2287.0047	801.0023	557.0013	2187.0045	801.0023	1047.0023	SEAT
	2187.0045	294.9993	1047.0023	2287.0047	294.9993	557.0013	
	2218.4168	801.0023	543.0033	2118.4166	801.0023	1033.0043	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
110 ARBB	2118.4166	294.9993	1033.0043	2218.4168	294.9993	543.0033	
	2642.0041	-801.0023	627.0015	2287.0047	-801.0023	557.0013	SEAT
	2287.0047	-294.9993	557.0013	2642.0041	-294.9993	627.0015	
	2661.3514	-801.0023	528.8910	2306.3494	-801.0023	458.8909	
111 ARBB	2306.3494	-294.9993	458.8909	2661.3514	-294.9993	528.8910	
	2287.0047	-801.0023	557.0013	2187.0045	-801.0023	1047.0023	SEAT
	2187.0045	-294.9993	1047.0023	2287.0047	-294.9993	557.0013	
	2218.4168	-801.0023	543.0033	2118.4166	-801.0023	1033.0043	
112 RCC	2118.4166	-294.9993	1033.0043	2218.4168	-294.9993	543.0033	
	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
113 RCC	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
	2200.0043	148.0013	504.9997	1260.0024	-148.0013	-47.0003	TUNNEL
114 RPP	98.0012	0.0000	0.0000	0.0000	0.0000	0.0000	
	1630.0032	3211.0070	-100.0002	250.0005	451.9999	604.9999	TUNNEL
115 TRC	2879.5179	635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
116 TRC	2879.5179	460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
117 TRC	2386.7407	635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
118 TRC	2386.7407	460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG RT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
119 SPH	2386.7407	635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
120 SPH	2386.7407	460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
121 REC	2402.0036	548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
	0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
122 REC	2371.4753	548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
123 REC	2321.8638	548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
	0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
124 RCC	2272.2548	740.5016	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

170

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS	
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000		
125	RCC	2272.2546	355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM	RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000		
126	TRC	2341.7089	740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM	LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000		
127	TRC	2341.7089	355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM	RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000		
128	RCC	2272.2546	548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK	
		60.5005	0.0000	0.0000	0.0000	0.0000	0.0000		
129	ELL1	2249.3567	548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD	
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000		
130	SPH	2879.5179	635.5003	761.3172	66.0149	0.0000	0.0000	KNEE	LT
131	SPH	2879.5179	460.5013	761.3172	66.0149	0.0000	0.0000	KNEE	RT
132	SPH	2341.7089	740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW	LT
133	SPH	2341.7089	355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW	RT
134	SPH	3201.0070	635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE	LT
135	SPH	3201.0070	460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE	RT
136	REC	2610.6756	740.5018	949.4786	103.0711	0.0000	20.0356	HAND	LT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000		
137	REC	2610.6756	355.4998	949.4786	103.0711	0.0000	20.0356	HAND	RT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000		
138	SPH	2281.7951	738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT	L
139	SPH	2281.7951	352.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT	R
140	TRC	2879.5179	-460.5013	761.3172	87.3916	0.0000	-449.5869	DUMMY	
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000		
141	TRC	2879.5179	-460.5013	761.3172	300.7753	0.0000	-275.6317	LOW LEG	LT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000		
142	TRC	2879.5179	-635.5003	761.3172	300.7753	0.0000	-275.6317	LOW LEG	RT
		66.0149	50.0001	0.0000	0.0000	0.0000	0.0000		
143	TRC	2386.7407	-460.5013	665.5309	492.7772	0.0000	95.7863	UP LEG	LT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000		

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
144	TRC	2386.7407	-635.5003	665.5309	492.7772	0.0000	95.7863	UP LEG RT
		80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
145	SPH	2386.7407	-460.5013	665.5309	69.4998	0.0000	0.0000	HIP JNT LT
146	SPH	2386.7407	-635.5003	665.5309	69.4998	0.0000	0.0000	HIP JNT RT
147	REC	2402.0036	-548.0021	587.0014	-30.5284	0.0000	157.0615	HIPS
		0.0000	157.0006	0.0000	101.1076	0.0000	19.6546	
148	REC	2371.4753	-548.0021	744.0629	-49.8020	0.0000	256.2057	TORSO LOW
		0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
149	REC	2321.8638	-548.0021	999.2857	-49.6115	0.0000	255.2227	TORSO UP
		0.0000	144.9990	0.0000	105.0345	0.0000	20.4166	
150	RCC	2272.2548	-355.4998	1254.5084	69.4540	0.0000	-357.3134	UP ARM LT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
151	RCC	2272.2548	-740.5018	1254.5084	69.4540	0.0000	-357.3134	UP ARM RT
		47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
152	TRC	2341.7089	-355.4998	897.1950	268.9667	0.0000	52.2810	LOW ARM LT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
153	TRC	2341.7089	-740.5018	897.1950	268.9667	0.0000	52.2810	LOW ARM RT
		42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
154	RCC	2272.2548	-548.0021	1254.5084	-13.7389	0.0000	70.6783	NECK
		60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
155	ELL1	2249.3567	-548.0021	1372.3039	98.1638	0.0000	19.0806	HEAD
		84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
156	SPH	2879.5179	-460.5013	761.3172	66.0149	0.0000	0.0000	KNEE LT
157	SPH	2879.5179	-635.5003	761.3172	66.0149	0.0000	0.0000	KNEE RT
158	SPH	2341.7089	-355.4998	897.1950	42.4994	0.0000	0.0000	ELBOW LT
159	SPH	2341.7089	-740.5018	897.1950	42.4994	0.0000	0.0000	ELBOW RT
160	SPH	3201.0070	-460.5013	509.0002	50.0001	0.0000	0.0000	ANKLE LT
161	SPH	3201.0070	-635.5003	509.0002	50.0001	0.0000	0.0000	ANKLE RT
162	REC	2610.6756	-355.4998	949.4786	103.0711	0.0000	20.0356	HAND LT
		-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
163	REC	2610.6756	-740.5018	949.4786	103.0711	0.0000	20.0356	HAND RT

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	-9.5403	0.0000	49.0806	0.0000	44.9988	0.0000	
164 SPH	2281.7951	-358.0017	1205.4278	50.0001	0.0000	0.0000	SHLD JNT L
165 SPH	2281.7951	-738.0024	1205.4278	50.0001	0.0000	0.0000	SHLD JNT R
166 ARB6	3952.0066	68.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
	3452.0057	0.0000	971.0026	3952.0066	0.0000	825.0003	(ONE)
	3890.0075	69.1086	609.0004	3352.0055	114.4275	657.0015	
	3352.0055	0.0000	657.0015	3890.0075	0.0000	609.0004	
167 ARB8	3952.0066	68.0011	825.0003	3452.0057	111.9992	971.0026	FUEL CELL
	3452.0057	221.9994	971.0026	3952.0066	181.9993	825.0003	(TWO)
	3890.0075	70.4294	657.0015	3414.0071	112.5301	809.0008	
	3414.0071	220.4271	609.0008	3890.0075	181.9993	657.0015	
168 ARB8	3668.0081	208.0014	931.0026	3728.0082	360.0007	909.0010	FUEL CELL
	3952.0066	340.0007	825.0003	3951.8441	182.0197	824.5609	(THREE)
	3668.0081	208.0014	731.0022	3717.7517	334.0215	705.0738	
	3889.6323	320.7245	656.5265	3893.9065	187.3181	667.5680	
169 ARB8	3890.0075	0.0000	609.0004	3890.0075	-291.9995	609.0004	FUEL CELL
	3952.0066	-375.1976	825.0003	3952.0066	0.0000	825.0003	(FOUR)
	3352.0055	0.0000	609.0004	3352.0055	-235.9999	609.0004	
	3452.0057	-380.0007	985.0006	3452.0057	0.0000	985.0006	
170 ARB6	3988.0087	337.0009	755.0002	4246.0078	337.0009	723.0011	FEND INSD
	4295.8503	338.2963	721.4848	3987.8513	338.2963	753.4863	
	4247.0085	454.0014	828.0026	4246.8510	455.2968	826.4862	
171 ARB6	3988.0087	-337.0009	755.0002	4247.0085	-454.0014	828.0026	FEND INSD
	4246.8231	-455.3349	826.5218	3987.8233	-338.3344	753.5219	
	3988.0087	-458.0019	864.0022	3987.8233	-459.3329	862.5214	
172 ARB6	3988.0087	337.0009	755.0002	4247.0085	454.0014	828.0026	FEND INSD
	4246.8231	455.3349	826.5218	3987.8233	338.3344	753.5219	
	3988.0087	458.0019	864.0022	3987.8233	459.3329	862.5214	
173 ARB6	3100.0060	-494.0015	1101.0029	3988.0087	-458.0019	864.0022	FEND INSD
	3987.6760	-459.3456	862.5569	3099.6758	-495.3451	1099.5576	
	4152.0070	-694.0019	1046.0015	4151.6768	-695.3455	1044.5588	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

173

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS	
174	ARB6	3100.0060	494.0015	1101.0029	3988.0087	458.0019	864.0022	FEND	INSD
		3987.6760	459.3456	862.5559	3099.6758	495.3451	1099.5576		
		4152.0070	694.0019	1046.0015	4151.6768	695.3455	1044.5588		
175	ARB6	3988.0087	-458.0019	864.0022	4247.0085	-454.0014	828.0026	FEND	INSD
		4246.8180	-455.2968	826.4913	3987.8182	-459.2973	862.4909		
		4152.0070	-694.0019	1046.0015	4151.8191	-695.2973	1044.4902		
176	ARB6	3988.0087	458.0019	864.0022	4247.0085	454.0014	828.0026	FEND	INSD
		4246.8180	455.2968	826.4913	3987.8182	459.2973	862.4909		
		4152.0070	694.0019	1046.0015	4151.8191	695.2973	1044.4902		
177	ARB6	3100.0060	-494.0015	1101.0029	4152.0070	-694.0019	1046.0015	FEND	INSD
		4151.8597	-694.2381	1044.0229	3099.8587	-494.2377	1099.0217		
		4017.0080	-894.0022	1080.0021	4016.8582	-894.2385	1078.0209		
178	ARB6	3100.0060	494.0015	1101.0029	4152.0070	694.0019	1046.0015	FEND	INSD
		4151.8597	694.2381	1044.0229	3099.8587	494.2377	1099.0217		
		4017.0080	894.0022	1080.0021	4016.8582	894.2385	1078.0209		
179	ARB6	3100.0060	-494.0015	1101.0029	4017.0080	-894.0022	1080.0021	FEND	INSD
		4016.9623	-894.0022	1078.0031	3099.9603	-494.0015	1099.0014		
		3100.0060	-893.0015	1101.0029	3099.9603	-893.0015	1099.0014		
180	ARB6	3100.0060	494.0015	1101.0029	4017.0080	894.0022	1080.0021	FEND	INSD
		4016.9623	894.0022	1078.0031	3099.9603	494.0015	1099.0014		
		3100.0060	893.0015	1101.0029	3099.9603	893.0015	1099.0014		
181	KPP	4296.0078	4371.0092	-508.0020	510.0010	546.0005	723.0011	BUMBER	
182	ARB6	4017.0080	894.0022	1080.0021	3465.0054	917.0020	1013.0017	BODY	SIDE
		3464.9953	915.0843	1012.4327	4016.9979	892.0845	1079.4331		
		3100.0060	893.0015	1101.0029	3099.9958	891.0838	1100.4339		
183	ARB6	4017.0080	-894.0022	1080.0021	3465.0054	-917.0020	1013.0017	BODY	SIDE
		3464.9953	-915.0843	1012.4327	4016.9979	-892.0845	1079.4331		
		3100.0060	-893.0015	1101.0029	3099.9958	-891.0838	1100.4339		
184	ARB6	3465.0054	917.0020	1013.0017	3412.0056	917.0020	982.0009	BODY	SIDE
		3412.0990	915.0107	981.8434	3465.0994	915.0107	1012.8442		
		3100.0060	893.0015	1101.0029	3100.0974	891.0101	1100.8429		

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
185 ARB6	3465.0054	-917.0020	1013.0017	3412.0056	-917.0020	982.0009	BODY SIDE
	3412.0996	-915.0107	981.8434	3465.0994	-915.0107	1012.8442	
	3100.0060	-893.0015	1101.0029	3100.0974	-891.0101	1100.8429	
186 ARB6	3412.0056	917.0020	982.0009	3007.0061	917.0020	971.0026	BODY SIDE
	3007.0162	915.0361	970.6318	3412.0158	915.0361	981.6326	
	3100.0060	893.0015	1101.0029	3100.0162	891.0355	1100.6321	
187 ARB6	3412.0056	-917.0020	982.0009	3007.0061	-917.0020	971.0026	BODY SIDE
	3007.0162	-915.0361	970.6318	3412.0158	-915.0361	981.6326	
	3100.0060	-893.0015	1101.0029	3100.0162	-891.0355	1100.6321	
188 ARB6	3412.0056	917.0020	982.0009	3412.0056	917.0020	971.0026	BODY SIDE
	3412.0056	915.0005	971.0026	3412.0056	915.0005	982.0009	
	3007.0061	917.0020	971.0026	3007.0061	915.0005	971.0026	
189 ARB6	3412.0056	-917.0020	982.0009	3412.0056	-917.0020	971.0026	BODY SIDE
	3412.0056	-915.0005	971.0026	3412.0056	-915.0005	982.0009	
	3007.0061	-917.0020	971.0026	3007.0061	-915.0005	971.0026	
190 ARB8	3412.0056	917.0020	971.0026	3362.0055	917.0020	837.0019	BODY SIDE
	2926.0052	917.0020	837.0019	3007.0061	917.0020	971.0026	
	3412.0056	915.0005	971.0026	3362.0055	915.0005	837.0019	
191 ARB8	2926.0052	915.0005	837.0019	3007.0061	915.0005	971.0026	
	3412.0056	-917.0020	971.0026	3362.0055	-917.0020	837.0019	BODY SIDE
	2926.0052	-917.0020	837.0019	3007.0061	-917.0020	971.0026	
192 ARB8	3412.0056	-915.0005	971.0026	3362.0055	-915.0005	837.0019	
	2926.0052	-915.0005	837.0019	3007.0061	-915.0005	971.0026	
	3362.0055	917.0020	837.0019	3235.0050	843.0014	451.9999	BODY SIDE
193 ARB8	1354.0031	843.0014	451.9999	1229.0016	917.0020	837.0019	
	3362.0055	915.0386	837.3803	3235.0050	841.0380	452.3783	
	1354.0031	841.0380	452.3783	1229.0016	915.0386	837.3803	
193 ARB8	3362.0055	-917.0020	837.0019	3235.0050	-843.0014	451.9999	BODY SIDE
	1354.0031	-843.0014	451.9999	1229.0016	-917.0020	837.0019	
	3362.0055	-915.0386	837.3803	3235.0050	-841.0380	452.3783	
	1354.0031	-841.0380	452.3783	1229.0016	-915.0386	837.3803	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
194 ARB8	3235.0050	843.0014	451.9999	3211.0070	716.0009	369.0000	ROCKER PAN
	1380.0027	716.0009	369.0000	1354.0031	843.0014	451.9999	
	3235.0050	841.9066	453.6763	3211.0070	714.9061	370.6738	
	1380.0027	714.9061	370.6738	1354.0031	841.9066	453.6763	
195 ARB8	3235.0050	-843.0014	451.9999	3211.0070	-716.0009	369.0000	ROCKER PAN
	1380.0027	-716.0009	369.0000	1354.0031	-843.0014	451.9999	
	3235.0050	-841.9066	453.6763	3211.0070	-714.9061	370.6738	
	1380.0027	-714.9061	370.6738	1354.0031	-841.9066	453.6763	
196 ARB8	180.0003	-791.0023	678.0023	180.0003	-742.0004	491.0017	R BUMPER
	180.0003	746.0009	491.0017	180.0003	792.0005	678.0023	
	121.9992	-791.0023	678.0023	121.9992	-742.0004	491.0017	
	121.9992	746.0009	491.0017	121.9992	792.0005	678.0023	
197 ARB8	173.6503	-782.7727	671.6523	173.6503	-737.1007	497.3517	INS BUMPER
	173.6503	741.0251	497.3517	173.6503	783.9004	671.6523	
	128.3492	-782.7727	671.6523	128.3492	-737.1007	497.3517	
	128.3492	741.0251	497.3517	128.3492	783.9004	671.6523	
198 ARB8	1701.0041	917.0020	1031.0028	1757.0037	917.0020	837.0019	REAR SIDE
	1229.0016	917.0020	837.0019	1171.0030	917.0020	1031.0028	
	1701.0041	915.0005	1031.0028	1757.0037	915.0005	837.0019	
	1229.0016	915.0005	837.0019	1171.0030	915.0005	1031.0028	
199 ARB8	1701.0041	-917.0020	1031.0028	1757.0037	-917.0020	837.0019	REAR SIDE
	1229.0016	-917.0020	837.0019	1171.0030	-917.0020	1031.0028	
	1701.0041	-915.0005	1031.0028	1757.0037	-915.0005	837.0019	
	1229.0016	-915.0005	837.0019	1171.0030	-915.0005	1031.0028	
200 ARB8	1666.0027	893.0015	1123.0019	1701.0041	917.0020	1031.0028	REAR SIDE
	128.9995	917.0020	1031.0028	115.9997	893.0015	1123.0019	
	1666.0027	891.0660	1122.4965	1701.0041	915.0665	1030.4973	
	128.9995	915.0665	1030.4973	115.9997	891.0660	1122.4965	
201 ARB8	1666.0027	-893.0015	1123.0019	1701.0041	-917.0020	1031.0028	REAR SIDE
	128.9995	-917.0020	1031.0028	115.9997	-893.0015	1123.0019	
	1666.0027	-891.0660	1122.4965	1701.0041	-915.0665	1030.4973	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

176

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS	
202	ARB8	128.9995	-915.0665	1030.4973	115.9997	-891.0660	1122.4965	REAR	SIDE
		351.0014	917.0020	1031.0028	224.9992	792.0005	678.0023		
		180.0003	792.0005	678.0023	128.9995	917.0020	1031.0028		
		351.0014	915.1173	1031.6708	224.9992	790.1158	678.6678		
203	ARB8	180.0003	790.1158	678.6678	128.9995	915.1173	1031.6708	REAR	SIDE
		351.0014	-917.0020	1031.0028	224.9992	-792.0005	678.0023		
		180.0003	-792.0005	678.0023	128.9995	-917.0020	1031.0028		
		351.0014	-915.1173	1031.6708	224.9992	-790.1158	678.6678		
204	ARB8	180.0003	-790.1158	678.6678	128.9995	-915.1173	1031.6708	REAR	
		115.9997	893.0015	1123.0019	128.9995	917.0020	1031.0028		
		180.0003	792.0005	678.0023	182.2737	351.0014	678.0023		
		117.9809	893.0116	1123.2839	130.9807	917.0122	1031.2847		
205	ARB8	181.9790	792.0107	678.2843	184.2549	351.0116	678.2843	REAR	
		115.9997	-893.0015	1123.0019	128.9995	-917.0020	1031.0028		
		180.0003	-792.0005	678.0023	182.2737	-351.0014	678.0023		
		117.9809	-893.0116	1123.2839	130.9807	-917.0122	1031.2847		
206	ARB8	181.9790	-792.0107	678.2843	184.2549	-351.0116	678.2843	REAR	
		115.9997	893.0015	1123.0019	182.2737	351.0014	678.0023		
		184.2523	351.0014	678.2970	117.9784	893.0015	1123.2966		
		115.9997	351.0014	1123.0019	117.9784	351.0014	1123.2966		
207	ARB8	115.9997	-893.0015	1123.0019	182.2737	-351.0014	678.0023	REAR	
		184.2523	-351.0014	678.2970	117.9784	-893.0015	1123.2966		
		115.9997	-351.0014	1123.0019	117.9784	-351.0014	1123.2966		
208	ARB8	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR	SKID
		4140.0080	261.9995	321.0014	4296.0078	311.0014	546.0005		
		4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184		
		4134.7908	261.9995	324.6184	4290.7906	311.0014	549.6201		
209	ARB8	4296.0078	0.0000	546.0005	4140.0080	0.0000	321.0014	FLOOR	SKID
		4140.0080	-261.9995	321.0014	4296.0078	-311.0014	546.0005		
		4290.7906	0.0000	549.6201	4134.7908	0.0000	324.6184		
		4134.7906	-261.9995	324.6184	4290.7906	-311.0014	549.6201		

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
210 ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
	3957.0079	261.9995	288.0016	4140.0080	261.9995	321.0014	
	4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
	3955.8802	261.9995	294.2500	4138.8803	261.9995	327.2498	
211 ARB8	4140.0080	0.0000	321.0014	3957.0079	0.0000	288.0016	FLOOR SKID
	3957.0079	-261.9995	288.0016	4140.0080	-261.9995	321.0014	
	4138.8803	0.0000	327.2498	3955.8802	0.0000	294.2500	
	3955.8802	-261.9995	294.2500	4138.8803	-261.9995	327.2498	
212 ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
	3214.0067	270.0005	369.0000	3957.0079	261.9995	288.0016	
	3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
	3214.6925	270.0005	375.3144	3957.6937	261.9995	294.3135	
213 ARB8	3957.0079	0.0000	288.0016	3214.0067	0.0000	369.0000	FLOOR SKID
	3214.0067	-270.0005	369.0000	3957.0079	-261.9995	288.0016	
	3957.6937	0.0000	294.3135	3214.6925	0.0000	375.3144	
	3214.6925	-270.0005	375.3144	3957.6937	-261.9995	294.3135	
214 ARB8	3362.0055	915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
	3211.0070	714.0019	369.0000	3237.7863	841.0024	451.9999	
	3360.1030	915.0005	837.6166	3209.1020	0.0000	369.6146	
	3209.1020	714.0019	369.6146	3235.8838	841.0024	452.6145	
215 ARB8	3362.0055	-915.0005	837.0019	3211.0070	0.0000	369.0000	BULKHEAD
	3211.0070	-714.0019	369.0000	3237.7863	-841.0024	451.9999	
	3360.1030	-915.0005	837.6166	3209.1020	0.0000	369.6146	
	3209.1020	-714.0019	369.6146	3235.8838	-841.0024	452.6145	
216 ARB8	3211.0070	0.0000	369.0000	3362.0055	915.0005	837.0019	BULKHEAD
	3412.0056	915.0005	982.0009	3426.5243	0.0000	994.0024	
	3209.1147	-.0203	369.6527	3360.1157	914.9802	837.6547	
	3410.1158	914.9802	982.6537	3424.6320	-.0203	994.6527	
217 ARB8	3211.0070	0.0000	369.0000	3362.0055	-915.0005	837.0019	BULKHEAD
	3412.0056	-915.0005	982.0009	3426.5243	0.0000	994.0024	
	3209.1147	.0203	369.6527	3360.1157	-914.9802	837.6547	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

178

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	3410.1158	-914.9802	982.6537	3424.6320	.0203	994.6527	
218 RPP	4302.3578	4364.6592	-501.6520	503.6510	552.3506	716.6511	BUMBER
219 ARB8	1316.0020	843.0014	1287.0027	92.9999	843.0014	1287.0027	ENG DECK
	92.9999	-845.0004	1287.0027	1316.0020	-845.0004	1287.0027	
	1341.0034	893.0015	1123.0019	115.9997	893.0015	1123.0019	
	115.9997	-887.0020	1123.0019	1341.0034	-887.0020	1123.0019	
220 ARB8	1314.2850	841.5206	1285.0012	95.3012	841.5206	1285.0012	INS ENG
	95.3012	-843.4484	1285.0012	1314.2850	-843.4484	1285.0012	DECK
	1336.9790	890.9110	1123.0019	118.0190	890.9110	1123.0019	
	118.0190	-884.9369	1123.0019	1336.9790	-884.9369	1123.0019	
221 TOR	2843.0053	635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
	148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
222 TOR	2843.0053	-635.0000	1385.0014	1.0008	0.0000	.7798	ROLL BAR
	148.9995	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
223 ARB8	2893.0053	635.0000	1424.0515	2849.1064	844.2511	1460.3026	ROLL BAR
	2751.7046	844.2511	1605.0526	2751.6944	635.0000	1605.0450	CORNER
	2792.6604	635.0000	1345.8395	2749.1062	844.2511	1402.2024	
	2651.7044	844.2511	1526.9524	2651.5495	635.0000	1526.8305	
224 ARB8	2893.0053	-635.0000	1424.0515	2849.1064	-844.2511	1480.3026	ROLL BAR
	2751.7046	-844.2511	1605.0526	2751.7046	-635.0000	1605.0526	CORNER
	2793.0052	-635.0000	1345.9538	2749.1062	-844.2511	1402.2024	
	2651.7044	-844.2511	1526.9524	2651.7044	-635.0000	1526.9524	
225 RCC	2753.0051	635.0000	1500.0029	0.0000	-1270.0025	0.0000	ROLL BAR
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	TOP
226 RCC	2812.0044	775.0002	1427.0030	264.9992	91.9992	-338.0017	ROLL BAR
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
227 RCC	2812.0044	-775.0002	1427.0030	264.9992	-91.9992	-338.0017	ROLL BAR
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
228 RCC	2735.0040	0.0000	1522.0019	351.8498	0.0000	-449.7012	CENTRE BAR
	11.9990	0.0000	0.0000	0.0000	0.0000	0.0000	
229 TOR	1540.0030	660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
230 TOR	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
	1540.0030	-660.0013	1424.0033	51.0009	0.0000	15.9995	ROLL BAR
231 ARB6	120.0002	27.0003	0.0000	0.0000	0.0000	0.0000	CORNER
	1582.0020	672.0003	1653.0029	1582.0020	843.0014	1505.0016	ROLL BAR
	1480.0029	843.0014	1473.0026	1480.0029	672.0003	1621.0039	CORNER
	1562.0020	672.0003	1461.0036	1480.0029	672.0003	1429.0020	
232 ARB6	1582.0020	-672.0003	1653.0029	1582.0020	-843.0014	1505.0016	ROLL BAR
	1480.0029	-843.0014	1473.0026	1480.0029	-672.0003	1621.0039	CORNER
	1582.0020	-672.0003	1461.0036	1480.0029	-672.0003	1429.0020	
233 RCC	1500.0029	672.0003	1547.0033	0.0000	-1344.0031	0.0000	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR TOP
234 RCC	1530.0030	774.0020	1466.0023	150.0003	90.0002	-411.9998	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
235 RCC	1530.0030	-774.0020	1466.0023	150.0003	-90.0002	-411.9998	REAR ROLL
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	BAR SIDE
236 RCC	2753.0051	200.0004	1500.0029	-703.0011	264.9992	101.0010	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
237 RCC	2050.0040	464.9996	1601.0039	-550.0011	207.0007	-54.0006	
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	
238 RCC	2753.0051	-540.0010	1500.0029	-703.0011	-70.0001	101.0010	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
239 RCC	2050.0040	-610.0012	1601.0039	-550.0011	-50.0001	-54.0006	MOUNT
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	SUPPORT
240 ARB6	3988.0087	458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
	4296.0078	0.0000	723.0011	4296.0078	378.0017	723.0011	
	3987.1756	458.0019	862.1835	3987.1756	0.0000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	378.0017	721.1825	
241 ARB6	3988.0087	-458.0019	864.0022	3988.0087	0.0000	864.0022	FRONT HOOD
	4296.0078	0.0000	723.0011	4296.0078	-378.0017	723.0011	
	3987.1756	-458.0019	862.1835	3987.1756	0.0000	862.1835	
	4295.1747	0.0000	721.1825	4295.1747	-378.0017	721.1825	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
242 ARB8	3988.0087	0.0000	864.0022	3988.0087	-458.0019	864.0022	HOOD
	3100.0060	-494.0015	1101.0029	3100.0060	0.0000	1101.0029	
	3987.4931	0.0000	862.0692	3987.4931	-458.0019	862.0692	
	3099.4904	-494.0015	1099.0699	3099.4904	0.0000	1099.0699	
243 ARB8	3988.0087	0.0000	864.0022	3988.0087	458.0019	864.0022	HOOD
	3100.0060	494.0015	1101.0029	3100.0060	0.0000	1101.0029	
	3987.4931	0.0000	862.0692	3987.4931	458.0019	862.0692	
	3099.4904	494.0015	1099.0699	3099.4904	0.0000	1099.0699	
244 ARB6	3988.0087	-337.0009	755.0002	4296.0078	-337.0009	723.0011	FEND INSD
	4295.8503	-338.2963	721.4848	3987.8513	-338.2963	753.4863	
	4247.0085	-454.0014	828.0026	4246.8510	-455.2968	826.4862	
245 ELL1	4220.0082	350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
	80.0002	0.0000	0.0000	0.0000	0.0000	0.0000	
246 RPP	4040.0078	4220.0082	170.0003	530.0010	683.0011	1053.0018	HEADLIGHT
247 ELL1	4220.0082	-350.0007	873.0014	180.0003	0.0000	0.0000	HEADLIGHT
248 RPP	4040.0078	4220.0082	-530.0010	-170.0003	683.0011	1053.0018	HEADLIGHT
249 RCC	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	COLUMN
	20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
250 TOR	2777.0056	548.0021	1077.0023	370.0007	-50.0001	-210.0004	STR WHEEL
	190.0004	14.9988	0.0000	0.0000	0.0000	0.0000	
251 RPP	1341.0034	1666.0027	-893.0015	893.0015	1123.0019	1125.0009	TOP DECK F
252 RPP	1416.0022	1620.0031	326.0001	580.0011	453.0006	681.0021	BATTERY
253 RPP	1416.0022	1620.0031	589.0004	840.0016	453.0006	681.0021	BATTERY
254 RCC	2236.0038	168.0013	1610.0031	0.0000	0.0000	-800.0015	PEDESTAL
	70.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
255 RCC	2288.0054	-140.0003	1550.0030	0.0000	0.0000	60.0001	TOW RING
	300.0006	0.0000	0.0000	0.0000	0.0000	0.0000	
256 BOX	3377.0068	-870.0017	937.0021	0.0000	168.0013	0.0000	RADIO SET
	-104.9989	0.0000	-314.9993	-358.0017	0.0000	119.3297	
257 BOX	3377.0068	-650.0013	937.0021	0.0000	406.0003	0.0000	GUIDANCE
	-82.2201	0.0000	-240.3307	-380.0007	0.0000	130.0003	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
258 RCC	2236.0038	168.0013	1610.0031	0.0000	0.0000	338.0017	TRAVERSE
	100.0002	0.0000	0.0000	0.0000	0.0000	0.0000	UNIT
259 RPP	2151.0049	2321.0053	82.9999	253.0002	1720.0033	1948.0048	TRAVERSE
260 ARB8	2286.0039	297.0008	1710.0033	2366.0041	297.0008	1695.0020	TRAVERSE
	2366.0041	297.0008	1950.0038	2286.0039	297.0008	1950.0038	UNIT
	2286.0039	40.0001	1710.0033	2366.0041	40.0001	1695.0020	
	2366.0041	40.0001	1950.0038	2286.0039	40.0001	1950.0038	
261 ARB8	2106.0037	297.0008	1710.0033	2106.0036	297.0008	1695.0020	TRAVERSE
	2106.0036	297.0008	1950.0038	2106.0037	297.0008	1950.0038	UNIT
	2106.0037	40.0001	1710.0033	2106.0036	40.0001	1695.0020	
	2106.0036	40.0001	1950.0038	2106.0037	40.0001	1950.0038	
262 RCC	2236.0038	82.9998	1665.0024	0.0000	-80.0002	0.0000	
	40.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
263 SPH	2236.0038	168.0013	1650.0032	1.0008	0.0000	0.0000	
264 SPH	2236.0038	168.0013	1650.0032	1.0008	0.0000	0.0000	
265 RCC	1631.5653	168.0013	1885.0024	638.0099	0.0000	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
266 RCC	1631.5653	168.0013	1885.0024	638.0099	0.0000	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
267 TRC	2381.2721	168.0013	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
268 TRC	2381.2721	168.0013	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
269 RCC	1631.5653	168.0013	1885.0024	434.7227	0.0000	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
270 RCC	2269.5751	168.0013	1885.0024	111.6969	0.0000	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
271 SPH	2324.4622	168.0013	1885.0024	93.4571	0.0000	0.0000	FLHT MOTOR
272 RPP	2381.2721	2407.9422	93.7949	242.2077	1810.7985	1959.2088	FLHT MOTOR
273 RCC	2583.8125	168.0013	1885.0024	147.9556	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS							REMARKS
274 ELL1	2731.7681	168.0013	1885.0024	98.4254	0.0000	0.0000	0.0000	WARHEAD
	53.5003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
275 ELL1	2731.7681	168.0013	1885.0024	95.8854	0.0000	0.0000	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
276 RCC	1588.0041	168.0013	1885.0024	1285.7505	0.0000	0.0000	0.0000	MSSLE CASE
	80.0453	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
277 RCC	1589.6297	168.0013	1885.0024	1282.4993	0.0000	0.0000	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
278 RCC	2129.4047	454.0014	2018.0049	419.1017	0.0000	0.0000	0.0000	SIGHT
	64.8973	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
279 RCC	2129.4047	327.0009	2018.0049	419.1017	0.0000	0.0000	0.0000	
	50.8002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
280 RPP	2129.4047	2281.8053	276.2007	545.4417	1954.5047	2094.2052		
281 RAW	2154.8048	276.2007	1953.1534	0.0000	177.8007	0.0000	0.0000	
	0.0000	0.0000	-101.6004	152.4006	0.0000	0.0000	0.0000	
282 RCC	2236.0038	168.0013	1885.0024	640.0012	0.0000	0.0000	0.0000	LAUNCHER
	84.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	ID
283 RCC	2236.0038	168.0013	1885.0024	640.0012	0.0000	0.0000	0.0000	LAUNCHER
	81.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	ID
284 TRC	2876.0051	168.0013	1885.0024	100.0002	0.0000	0.0000	0.0000	LAUNCHER
	84.0007	77.0004	0.0000	0.0000	0.0000	0.0000	0.0000	TAPER GD
285 TRC	2876.0051	168.0013	1885.0024	100.0002	0.0000	0.0000	0.0000	LAUNCHER
	81.0009	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	TAPER ID
286 RCC	2976.0053	168.0013	1885.0024	400.0008	0.0000	0.0000	0.0000	LAUNCHER
	77.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
287 RCC	2976.0053	168.0013	1885.0024	400.0008	0.0000	0.0000	0.0000	LAUNCHER
	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
288 RPP	2236.0038	2736.0048	98.0012	238.0015	1710.0033	1740.0034		LAUNCHER
289 REC	2371.4753	-548.0021	744.0629	-99.6014	0.0000	512.4115		BODY ARMOR
	0.0000	157.6991	0.0000	117.5009	0.0000	22.8398		
290 REC	2371.4753	548.0021	744.0629	-99.6014	0.0000	512.4115		BODY ARMOR

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	0.0000	157.6491	0.0000	117.5009	0.0000	22.8398	
291 RCC	1966.0033	-656.0008	603.0009	141.0010	0.0000	0.0000	N S FRNT
	54.0006	0.0000	0.0000	0.0000	0.0000	0.0000	LENS HOS
292 RCC	2030.0039	-579.0004	553.0008	-218.0014	0.0000	0.0000	N S GAS
	30.0001	0.0000	0.0000	0.0000	0.0000	0.0000	BOTTLE
293 RPP	1741.0041	1778.0045	-757.0017	-686.0008	514.9997	643.0010	N S
294 RCC	1778.0045	-596.0006	598.0022	-97.0004	0.0000	0.0000	N S EYE
	27.0003	0.0000	0.0000	0.0000	0.0000	0.0000	PIECE
295 RPP	1778.0045	1966.0033	-737.0017	-599.0004	512.0000	663.0010	N S CEN-
296 ARB8	1781.0042	-737.0017	653.0010	1781.0042	-767.0017	633.0010	N S BODY
	1781.0042	-767.0017	516.0005	1781.0042	-737.0017	516.0005	SIDE
	1963.0035	-737.0017	653.0010	1963.0035	-767.0017	633.0010	PIECE
	1963.0035	-767.0017	516.0005	1963.0035	-737.0017	516.0005	
297 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
298 RCC	1200.0023	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
299 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
300 TRC	1200.0023	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
301 RCC	1200.0023	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
302 RCC	1200.0023	-66.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
303 SPH	1200.0023	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
304 RPP	1125.7959	1274.2087	43.2665	69.9366	1293.7973	1442.2101	FLHT MOTOR
305 RCC	1200.0023	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
306 ELL1	1200.0023	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
307 ELL1	1200.0023	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
308 RCC	1200.0023	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
309 RCC	1200.0023	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
310 RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
311 RCC	1010.0020	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
312 TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
313 TRC	1010.0020	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
314 RCC	1010.0020	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
315 RCC	1010.0020	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
316 SPH	1010.0020	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
317 RPP	935.7956	1064.2083	-6.7336	19.9365	1293.7973	1442.2101	FLHT MOTOR
318 RCC	1010.0020	195.8068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
319 ELL1	1010.0020	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
320 ELL1	1010.0020	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
321 RCC	1010.0020	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
322 RCC	1010.0020	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
323 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
324 RCC	820.0016	-706.4403	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
325 TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
326 TRC	820.0016	43.2665	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
327 RCC	820.0016	-706.4403	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
328 RCC	820.0016	-68.4304	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
329 SPH	820.0016	-13.5433	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
330 RPP	745.7952	894.2080	43.2665	69.9366	1293.7973	1442.2101	FLHT MOTOR
331 RCC	820.0016	245.8069	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
332 ELL1	820.0016	393.7625	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
333 ELL1	820.0016	393.7625	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
334 RCC	820.0016	-750.0015	1368.0037	0.0000	1285.7505	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
335 RCC	820.0016	-748.3758	1368.0037	0.0000	1282.4993	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
336 RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
337 RCC	630.0012	-756.4404	1368.0037	0.0000	638.0099	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
338 TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
339 TRC	630.0012	-6.7336	1368.0037	0.0000	202.5404	0.0000	MSSLE SKIN
	72.9338	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
340 RCC	630.0012	-756.4404	1368.0037	0.0000	434.7227	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
341 RCC	630.0012	-118.4305	1368.0037	0.0000	111.6969	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
342 SPH	630.0012	-63.5434	1368.0037	93.4571	0.0000	0.0000	FLHT MOTOR
343 RPP	555.7948	704.2076	-6.7336	14.9365	1293.7973	1442.2101	FLHT MOTOR
344 RCC	630.0012	195.6068	1368.0037	0.0000	147.9556	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
345 ELL1	630.0012	343.7624	1368.0037	0.0000	98.4254	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
346 ELL1	630.0012	343.7624	1368.0037	0.0000	95.8854	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
347 RCC	630.0012	-800.0015	1368.0037	0.0000	1285.7505	0.0000	MISSILE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
348 RCC	630.0012	-798.3759	1368.0037	0.0000	1282.4993	0.0000	MISSILE CASE
	76.5176	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
349 TRC	2028.0049	541.5022	816.0011	0.0000	0.0000	-364.0012	LOW LEG LT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
350 TRC	2028.0049	366.5006	816.0011	0.0000	0.0000	-364.0012	LOW LEG RT
	66.0149	50.0001	0.0000	0.0000	0.0000	0.0000	
351 TRC	2028.0049	541.5022	1318.0036	0.0000	0.0000	-502.0000	UP LEG LT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
352 TRC	2028.0049	366.5006	1318.0036	0.0000	0.0000	-502.0000	UP LEG RT
	80.0002	66.0149	0.0000	0.0000	0.0000	0.0000	
353 SPH	2028.0049	541.5022	1318.0036	69.4998	0.0000	0.0000	HIP JNT LT
354 SPH	2028.0049	366.5006	1318.0036	69.4998	0.0000	0.0000	HIP JNT RT
355 REC	2028.0049	454.0014	1238.0034	0.0000	0.0000	160.0003	HIPS
	0.0000	157.0006	0.0000	102.9999	0.0000	0.0000	
356 REC	2028.0049	454.0014	1398.0037	0.0000	0.0000	261.0013	TORSO LOW
	0.0000	144.9990	0.0000	107.0005	0.0000	0.0000	
357 REC	2028.0049	454.0014	1658.0042	0.0000	0.0000	260.0005	TORSO UP

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	0.0000	144.9990	0.0000	107.0005	0.0000	0.0000	
358 RCC	2028.0049	646.5011	1918.0047	0.0000	13.9904	-363.7320	UP ARM LT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
359 RCC	2028.0049	261.5016	1918.0047	0.0000	-13.9904	-363.7320	UP ARM RT
	47.5007	0.0000	0.0000	0.0000	0.0000	0.0000	
360 TRC	2028.0049	660.4915	1554.2728	0.0000	10.5309	-273.7978	LOW ARM LT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
361 TRC	2028.0049	247.5113	1554.2728	193.7469	.5309	-193.7977	LOW ARM RT
	42.4994	30.0001	0.0000	0.0000	0.0000	0.0000	
362 RCC	2028.0049	454.0014	1918.0047	0.0000	0.0000	71.9991	NECK
	60.5005	0.0000	0.0000	0.0000	0.0000	0.0000	
363 ELL1	2028.0049	454.0014	2038.0050	100.0002	0.0000	0.0000	HEAD
	84.9989	0.0000	0.0000	0.0000	0.0000	0.0000	
364 SPH	2028.0049	541.5022	816.0011	66.0149	0.0000	0.0000	KNEE LT
365 SPH	2028.0049	366.5006	816.0011	66.0149	0.0000	0.0000	KNEE RT
366 SPH	2028.0049	660.4915	1554.2702	42.4994	0.0000	0.0000	ELBOW LT
367 SPH	2028.0049	247.5113	1554.2728	42.4994	0.0000	0.0000	ELBOW RT
368 SPH	2028.0049	541.5022	400.0008	50.0001	0.0000	0.0000	ANKLE LT
369 SPH	2028.0049	366.5006	400.0008	50.0001	0.0000	0.0000	ANKLE RT
370 REC	2028.0049	670.5220	1280.4825	0.0000	0.0000	-104.9989	HAND LEFT
	50.0001	0.0000	0.0000	0.0000	44.9988	0.0000	
371 REC	2221.7516	247.5113	1360.5259	74.2470	0.0000	-74.0007	HAND RIGHT
	34.9988	0.0000	34.9988	0.0000	44.9988	0.0000	
372 SPH	2028.0049	644.0018	1868.0046	50.0001	0.0000	0.0000	SHLD JNT L
373 SPH	2028.0049	264.0010	1868.0046	50.0001	0.0000	0.0000	SHLD JNT R
374 RCC	1316.0020	-231.0012	550.0011	-200.0004	0.0000	0.0000	STARTER
	60.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
375 RCC	1081.0029	-231.0012	550.0011	0.0000	0.0000	-130.0003	STARTER
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
376 RCC	1081.0029	-231.0012	420.0008	334.9994	557.0013	0.0000	STARTER
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
377 RCC	801.0023	228.9997	799.0008	0.0000	0.0000	-369.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
378 RCC	801.0023	228.9997	430.0008	2916.7468	104.9989	0.0000	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
379 RCC	3717.7568	334.0012	430.0008	0.0000	0.0000	258.9997	GAS LINE
	4.0005	0.0000	0.0000	0.0000	0.0000	0.0000	
380 RCC	1631.5653	-108.9994	1885.0024	638.0099	0.0000	0.0000	MSSLE S-IN
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
381 RCC	1631.5653	-108.9994	1885.0024	638.0099	0.0000	0.0000	MSSLE SKIN
	72.9364	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
382 TRC	2381.2721	-108.9994	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
	74.2064	63.5003	0.0000	0.0000	0.0000	0.0000	EXTERIOR
383 TRC	2381.2721	-108.9994	1885.0024	202.5404	0.0000	0.0000	MSSLE SKIN
	72.9336	62.2277	0.0000	0.0000	0.0000	0.0000	INTERIOR
384 RCC	1631.5653	-108.9994	1885.0024	434.7227	0.0000	0.0000	LAUNCH
	26.5431	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
385 RCC	2269.5751	-108.9994	1885.0024	111.6969	0.0000	0.0000	FLIGHT
	74.2064	0.0000	0.0000	0.0000	0.0000	0.0000	MOTOR
386 SPH	2324.4622	-108.9994	1885.0024	93.4571	0.0000	0.0000	FLHT MOTOR
387 RPP	2381.2721	2407.9422	-183.2058	-34.7931	1810.7985	1959.2088	FLHT MOTOR
388 RCC	2583.8125	-108.9994	1885.0024	147.9556	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	
389 ELL1	2731.7681	-108.9994	1885.0024	98.4254	0.0000	0.0000	WARHEAD
	63.5003	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE - EXT
390 ELL1	2731.7681	-108.9994	1885.0024	95.8854	0.0000	0.0000	WARHEAD
	60.9602	0.0000	0.0000	0.0000	0.0000	0.0000	NOSE -INT
391 RCC	1588.0041	-108.9994	1885.0024	1285.7505	0.0000	0.0000	MSSLE CASE
	80.6453	0.0000	0.0000	0.0000	0.0000	0.0000	EXTERIOR
392 RCC	1589.6297	-108.9994	1885.0024	1282.4993	0.0000	0.0000	MSSLE CASE
	76.5178	0.0000	0.0000	0.0000	0.0000	0.0000	INTERIOR
393 RCC	1300.0025	700.0014	1362.0016	-160.0003	0.0000	0.0000	TRIPOD

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE	SOLID PARAMETERS						REMARKS
	74.9989	0.0000	0.0000	0.0000	0.0000	0.0000	CENTRE
394 RCC	1140.0022	659.0005	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
395 RCC	1140.0022	700.0014	1410.0027	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
396 RCC	1140.0022	743.0012	1337.0028	-900.0017	0.0000	0.0000	TRIPOD LEG
	24.9988	0.0000	0.0000	0.0000	0.0000	0.0000	
397 REC	2028.0049	454.0014	1398.0037	0.0000	0.0000	520.0010	ARMOR VEST
	0.0000	157.6991	0.0000	119.7005	0.0000	0.0000	
398 RPP	1300.0025	2698.0062	760.0015	780.0015	1610.0031	2225.0030	GUN ARMOR
399 RPP	1300.0025	2698.0062	-780.0015	-760.0015	1610.0031	2225.0030	GUN ARMOR
400 ARB8	2618.0061	400.0008	1610.0031	1958.0048	400.0008	1610.0031	SHROUD
	1748.0044	400.0008	2242.0033	2888.0066	400.0008	2242.0033	LIMITER
	2618.0061	-820.0016	1610.0031	1958.0048	-820.0016	1610.0031	
	1748.0044	-820.0016	2242.0033	2888.0066	-820.0016	2242.0033	
401 RPP	140.0003	1300.0025	-830.0016	580.0011	1287.0027	1487.0031	TOW ARMOR
402 RPP	160.0003	1281.0032	-810.0016	560.0011	1287.0027	1467.0031	TOW ARMOR
403 ARB8	3988.0087	-458.0019	864.0022	3988.0087	458.0019	864.0022	HOOD ARMOR
	3100.0060	494.0015	1101.0029	3100.0060	-494.0015	1101.0029	(APRON)
	3988.0087	-458.0019	884.7007	3988.0087	458.0019	884.7007	
	3100.0060	494.0015	1121.7014	3100.0060	-494.0015	1121.7014	
404 ARB8	3100.0060	-920.0018	1101.0029	3100.0060	920.0018	1101.0029	WINDSHIELD
	2698.0062	760.0015	1610.0031	2698.0062	-760.0015	1610.0031	ARMOR
	3100.0060	-920.0018	1140.7922	3100.0060	920.0018	1140.7922	
	2698.0062	760.0015	1671.7939	2698.0062	-760.0015	1671.7939	
405 ARB8	3100.0060	920.0018	1101.0029	1300.0025	920.0018	1101.0029	LEFT SIDE
	1300.0025	760.0015	1610.0031	2698.0062	760.0015	1610.0031	ARMOR HI
	3100.0060	940.0018	1101.0029	1300.0025	940.0018	1101.0029	
	1300.0025	780.0015	1610.0031	2698.0062	780.0015	1610.0031	
406 ARB8	3100.0060	920.0018	1101.0029	1300.0025	920.0018	1101.0029	LEFT SIDE
	1400.0027	920.0018	831.0024	2930.0057	920.0018	831.0024	ARMOR LO

TABLE D-1. SOLID DATA FOR OPTION 3 XR311 (CONTINUED)

SOLID NUM TYPE		SOLID PARAMETERS						REMARKS
407	ARB8	3100.0060	940.0018	1101.0029	1300.0025	940.0018	1101.0029	
		1400.0027	940.0018	831.0024	2930.0057	940.0018	831.0024	
		3100.0060	-920.0018	1101.0029	1300.0025	-920.0018	1101.0029	RIGHT SIDE
		1300.0025	-760.0015	1610.0031	2698.0062	-760.0015	1610.0031	ARMOR HI
		3100.0060	-940.0018	1101.0029	1300.0025	-940.0018	1101.0029	
408	ARB8	1300.0025	-780.0015	1610.0031	2698.0062	-780.0015	1610.0031	
		3100.0060	-920.0018	1101.0029	1300.0025	-920.0018	1101.0029	RIGHT SIDE
		1400.0027	-920.0018	831.0024	2930.0057	-920.0018	831.0024	ARMOR LO
		3100.0060	-940.0018	1101.0029	1300.0025	-940.0018	1101.0029	
		1400.0027	-940.0018	831.0024	2930.0057	-940.0018	831.0024	
409	RPP	1300.0025	2698.0062	-780.0015	760.0015	2225.0030	2245.0031	ARMOR
410	RCC	2288.0054	-140.0003	1610.0031	0.0000	0.0000	30.0001	ROOF RING
		330.0006	0.0000	0.0000	0.0000	0.0000	0.0000	CUTOUT

TABLE D-2. REGION DATA FOR OPTION 3 XR311

REG NUM	REGION COMBINATION DATA										REMARKS
1 OR	1 OR	2 OR	3	0	0	0	0	0	0	0	0 SUMP
2	4	-35	0	0	0	0	0	0	0	0	0 BLOCK
3 OR	5 OR	6	-106	0	0	0	0	0	0	0	0 MANIFOLD
4	7	0	0	0	0	0	0	0	0	0	0 CARB
5	8	-14	0	0	0	0	0	0	0	0	0 OIL FILT
6	9	0	0	0	0	0	0	0	0	0	0 PUMP H2O
7	10	0	0	0	0	0	0	0	0	0	0 AIR FILT
8	11	0	0	0	0	0	0	0	0	0	0 PUMP GAS
9	12	0	0	0	0	0	0	0	0	0	0 GAS FILT
10	13	-106	0	0	0	0	0	0	0	0	0 RADIATOR
11	16	-8	-17	-100	0	0	0	0	0	0	0 TRANS ADP
12 OR	18 OR	19 OR	20 OR	21 OR	14	-15	-100	0	0	0	0 TRANS
13 OR	22 OR	23 OR	24 OR	25	0	0	0	0	0	0	0
14	26	0	0	0	0	0	0	0	0	0	0
15	27	0	0	0	0	0	0	0	0	0	0
16	28	-29	-26	0	0	0	0	0	0	0	0
17	30	0	0	0	0	0	0	0	0	0	0
18	31	0	0	0	0	0	0	0	0	0	0
19	32	0	0	0	0	0	0	0	0	0	0
20	33	0	0	0	0	0	0	0	0	0	0
21	34	0	0	0	0	0	0	0	0	0	0
22	35	0	0	0	0	0	0	0	0	0	0
23	36	0	0	0	0	0	0	0	0	0	0
24	37	0	0	0	0	0	0	0	0	0	0
25	38	0	0	0	0	0	0	0	0	0	0
26	39	0	0	0	0	0	0	0	0	0	0
27 OR	40 OR	41 OR	42 OR	43	-99	0	0	0	0	0	0
28	44	0	0	0	0	0	0	0	0	0	0
29	45	0	0	0	0	0	0	0	0	0	0
30	48	-49	0	0	0	0	0	0	0	0	0 TIRE
31	49	-46	-47	-51	-52	-53	-54	-55			0 WHEEL

TABLE D-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
32	58	-59	0	0	0	0	0	0	0	0 TIRE
33	59	-56	-57	-61	-62	-63	-64	-65	0	0 WHEEL
34	68	-69	0	0	0	0	0	0	0	0 TIRE
35	69	-66	-67	-71	-72	-73	-74	-75	0	0 WHEEL
36	78	-79	0	0	0	0	0	0	0	0 TIRE
37	79	-76	-77	-81	-82	-83	-84	-85	0	0 WHEEL
38	86	87	-7	-10	-34	-5	0	0	0	0 AIR HOSE
39	88	-112	-18	-19	-20	-21	-91	-92	-100	0 FLW
40 OR	89 OR	90	-16 OR	92 OR	91	-16	-100	0	0	0 BULKHD
41	93	-94	0	0	0	0	0	0	0	0 TRANS COVER
42	95	-96	-27	-112	0	0	0	0	0	0 TRANS COVER
43	97	0	0	0	0	0	0	0	0	0 TRANS COVER
44	98	0	0	0	0	0	0	0	0	0 TRANS U JNT
45	99	0	0	0	0	0	0	0	0	0 TRANS U JNT
46	100	-101	0	0	0	0	0	0	0	0 REAR PROP
47	102	0	0	0	0	0	0	0	0	0 U-JOINT
48	103	0	0	0	0	0	0	0	0	0 U-JOINT
49	104	0	0	0	0	0	0	0	0	0 REAR AXLE
50	105	0	0	0	0	0	0	0	0	0 REAR AXLE
51	106	107	0	0	0	0	0	0	0	0 H2O HOSE
52	50	0	0	0	0	0	0	0	0	0 DISC BRAKE
53	60	-39	0	0	0	0	0	0	0	0 DISC BRAKE
54	70	0	0	0	0	0	0	0	0	0 DISC BRAKE
55	80	-103	0	0	0	0	0	0	0	0 DISC BRAKE
56	114	112	-113	0	0	0	0	0	0	0 TUNNEL
57	108	0	0	0	0	0	0	0	0	0 SEAT
58	109	0	0	0	0	0	0	0	0	0 SEAT
59	110	0	0	0	0	0	0	0	0	0 SEAT
60	111	0	0	0	0	0	0	0	0	0 SEAT
61	115	-117	-130	-134	0	0	0	0	0	0 LOW LEG LT
62	116	-116	-131	-135	0	0	0	0	0	0 LOW LEG RT

TABLE D-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA								REMARKS
63	117	-130	-119	-121	0	0	0	0	0 UP LEG LT
64	118	-131	-120	-121	0	0	0	0	0 UP LEG RT
65	119	0	0	0	0	0	0	0	0 HIP JNT LT
66	120	0	0	0	0	0	0	0	0 HIP JNT RT
67	121	-119	-120	-122	0	0	0	0	0 HIPS
68	122	-123	0	0	0	0	0	0	0 TORSO LOW
69	123	0	0	0	0	0	0	0	0 TORSO UP
70	124	-132	-126	-138	0	0	0	0	0 ARM UP LT
71	125	-133	-127	-139	0	0	0	0	0 ARM UP RT
72	126	-132	0	0	0	0	0	0	0 ARM LOW LT
73	127	-133	0	0	0	0	0	0	0 ARM LOW RT
74	128	-123	0	0	0	0	0	0	0 NECK
75	129	-128	0	0	0	0	0	0	0 HEAD
76	130	0	0	0	0	0	0	0	0 KNEE LT
77	131	0	0	0	0	0	0	0	0 KNEE RT
78	132	0	0	0	0	0	0	0	0 ELBOW LT
79	133	0	0	0	0	0	0	0	0 ELBOW RT
80	134	0	0	0	0	0	0	0	0 ANKLE LT
81	135	0	0	0	0	0	0	0	0 ANKLE RT
82	136	-126	0	0	0	0	0	0	0 HAND LEFT
83	137	-127	-250	0	0	0	0	0	0 HAND RT
84	138	-123	0	0	0	0	0	0	0 SHLD JNT L
85	139	-123	0	0	0	0	0	0	0 SHLD JNT R
86	OR 166	OR 167	OR 168	OR 169	0	0	0	0	0 FUEL CELL
87	141	-143	-156	-160	0	0	0	0	0 LOW LEG LT
88	142	-144	-157	-161	0	0	0	0	0 LOW LEG RT
89	143	-156	-145	-147	0	0	0	0	0 UP LEG LT
90	144	-157	-146	-147	0	0	0	0	0 UP LEG RT
91	145	0	0	0	0	0	0	0	0 HIP JNT LT
92	146	0	0	0	0	0	0	0	0 HIP JNT RT
93	147	-145	-146	-148	0	0	0	0	0 HIPS

TABLE D-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA										REMARKS
94	148	-149	0	0	0	0	0	0	0	0	TORSO LOW
95	149	0	0	0	0	0	0	0	0	0	TORSO UP
96	150	-158	-152	-164	0	0	0	0	0	0	ARM UP LT
97	151	-159	-153	-165	0	0	0	0	0	0	ARM UP RT
98	152	-158	0	0	0	0	0	0	0	0	ARM LOW LT
99	153	-159	0	0	0	0	0	0	0	0	ARM LOW RT
100	154	-149	0	0	0	0	0	0	0	0	NECK
101	155	-154	0	0	0	0	0	0	0	0	HEAD
102	156	0	0	0	0	0	0	0	0	0	KNEE LT
103	157	0	0	0	0	0	0	0	0	0	KNEE RT
104	158	0	0	0	0	0	0	0	0	0	ELBOW LT
105	159	0	0	0	0	0	0	0	0	0	ELBOW RT
106	160	0	0	0	0	0	0	0	0	0	ANKLE LT
107	161	0	0	0	0	0	0	0	0	0	ANKLE RT
108	162	-152	0	0	0	0	0	0	0	0	HAND LEFT
109	163	-153	0	0	0	0	0	0	0	0	HAND RIGHT
110	164	-149	0	0	0	0	0	0	0	0	SHLD JNT L
111	0	0	0	0	0	0	0	0	0	0	DUMMY
112	165	-149	0	0	0	0	0	0	0	0	SHLD JNT R
113 OR	170 OR	172 OR	174 OR	176 OR	178 OR	180 OR	243 OR	240	-170	0	FT TOP LF
114	181	-218	0	0	0	0	0	0	0	0	F BUMPER
115 OR	202 OR	184 OR	186 OR	188 OR	190 OR	192 OR	198 OR	200 OR	182	0	LEFT SIDE
	-180	0	0	0	0	0	0	0	0	0	
116 OR	203 OR	185 OR	187 OR	189 OR	191 OR	193 OR	199 OR	201 OR	183	0	RIGHT SIDE
	-179	0	0	0	0	0	0	0	0	0	
117	194	-192	-88	-214	-92	0	0	0	0	0	ROCKER LFT
118	195	-193	-88	-215	-92	0	0	0	0	0	ROCKER RGT
119	196	-197	0	0	0	0	0	0	0	0	REAR BUMPER
120 OR	206 OR	207 OR	204	-202 OR	205	-203	0	0	0	0	R SHT MET
121 OR	208 OR	209 OR	210 OR	211 OR	212 OR	213	0	0	0	0	FLOOR SKID
122 OR	214 OR	215 OR	217	-28 OR	216	-28	0	0	0	0	BULKHEAD

TABLE D-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA												REMARKS	
123	219	-220	-206	0	0	0	0	0	0	0	0	0	0	ENG DECK
124	221	223	C	0	0	0	0	0	0	0	0	0	0	ROLL BAR
125	222	224	0	0	0	0	0	0	0	0	0	0	0	ROLL BAR
126	226	-223	C	0	0	0	0	0	0	0	0	0	0	ROLL BAR
127	227	-224	0	0	0	0	0	0	0	0	0	0	0	ROLL BAR
128 OR	228 OR	225 OR	239 OR	238 OR	233	0	0	0	0	0	0	0	0	ROLL TOP
129	229	231	-233	0	0	0	0	0	0	0	0	0	0	ROLL BAR RR
130	230	232	-233	-239	0	0	0	0	0	0	0	0	0	ROLL BAR RR
131 OR	244 OR	171 OR	173 OR	175 OR	177 OR	179 OR	242 OR	241	-244	FT TOP RT				
132	234	-16	0	0	0	0	0	0	0	0	0	0	0	ROLL BAR RR
133	235	-16	0	0	0	0	0	0	0	0	0	0	0	ROLL BAR RR
134	245	246	0	0	0	0	0	0	0	0	0	0	0	HEADLIGHT
135	247	248	0	0	0	0	0	0	0	0	0	0	0	HEADLIGHT
136	249	0	0	0	0	0	0	0	0	0	0	0	0	STEERING C
137	250	0	0	0	0	0	0	0	0	0	0	0	0	STEERING W
138	251	-235	-234	0	0	0	0	0	0	0	0	0	0	ENG TP DC
139	252	C	0	0	0	0	0	0	0	0	0	0	0	BATTERY
140	253	0	0	0	0	0	0	0	0	0	0	0	0	BATTERY
141	254	-361	-371	-93	0	0	0	0	0	0	0	0	0	PEDESTAL
142	256	0	0	0	0	0	0	0	0	0	0	0	0	GRC160 RADI
143	257	0	0	0	0	0	0	0	0	0	0	0	0	GUIDANCE
144 OR	262 OR	258	-259	-260	-261	0	0	0	0	0	0	0	0	TOW MOUNT
145 OR	265	-266 OR	267	-268	-271	0	0	0	0	0	0	0	0	MISSILE SKN
146	269	0	0	0	0	0	0	0	0	0	0	0	0	LAUNCH MOTR
147 OR	270 OR	271	272	0	0	0	0	0	0	0	0	0	0	FLIGHT MOTR
148	274	-273	-275	0	0	0	0	0	0	0	0	0	0	WARHEAD NSE
149 OR	268	-272 OR	273	0	0	0	0	0	0	0	0	0	0	WARHEAD
150	266	-269	C	0	0	0	0	0	0	0	0	0	0	MISCL - AFT
151	276	-277	C	0	0	0	0	0	0	0	0	0	0	MISSILE CAS
152 OR	278 OR	279 OR	280 OR	281	0	0	0	0	0	0	0	0	0	SIGHT
153	282	-283	-288	0	0	0	0	0	0	0	0	0	0	LAUNCHER

TABLE D-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA									REMARKS
154	284	-285	0	0	0	0	0	0	0	0 LAUNCHER
155	286	-287	0	0	0	0	0	0	0	0 LAUNCHER
156	289	-148	-149	-154	-164	-165	-150	-151	0	0 BODY ARMOR
	-158	-159	-152	-153	0	0	0	0	0	0
157	290	-122	-123	-128	-138	-139	-124	-125	0	0 BODY ARMOR
	-132	-133	-126	-127	0	0	0	0	0	0
158 OR	291 OR	292 OR	293 OR	294 OR	295 OR	296	0	0	0	0 NIGHT SIGH
159 OR	297	-298 OR	299	-300	-303	0	0	0	0	0 MISSILE SKN
160	301	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
161 OR	302 OR	303	304	0	0	0	0	0	0	0 FLIGHT MOTR
162	306	-305	-307	0	0	0	0	0	0	0 WARHEAD NSE
163 OR	300	-304 OR	305	0	0	0	0	0	0	0 WARHEAD
164	298	-301	0	0	0	0	0	0	0	0 MISCL - AFT
165	308	-309	0	0	0	0	0	0	0	0 MISSILE CAS
166 OR	310	-311 OR	312	-313	-316	0	0	0	0	0 MISSILE SKN
167	314	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
168 OR	315 OR	316	317	0	0	0	0	0	0	0 FLIGHT MOTR
169	319	-318	-320	0	0	0	0	0	0	0 WARHEAD NSE
170 OR	313	-317 OR	318	0	0	0	0	0	0	0 WARHEAD
171	311	-314	0	0	0	0	0	0	0	0 MISCL - AFT
172	321	-322	0	0	0	0	0	0	0	0 MISSILE CAS
173 OR	323	-324 OR	325	-326	-329	0	0	0	0	0 MISSILE SKN
174	327	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
175 OR	328 OR	329	330	0	0	0	0	0	0	0 FLIGHT MOTR
176	332	-331	-333	0	0	0	0	0	0	0 WARHEAD NSE
177 OR	326	-330 OR	331	0	0	0	0	0	0	0 WARHEAD
178	324	-327	0	0	0	0	0	0	0	0 MISCL - AFT
179	334	-335	0	0	0	0	0	0	0	0 MISSILE CAS
180 OR	336	-337 OR	338	-339	-342	0	0	0	0	0 MISSILE SKN
181	340	0	0	0	0	0	0	0	0	0 LAUNCH MOTR
182 OR	341 OR	342	343	0	0	0	0	0	0	0 FLIGHT MOTR

TABLE D-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA								REMARKS
183	345	-344	-346	0	0	0	0	0	0 WARHEAD NSE
184 OR	339	-343 OR	344	0	0	0	0	0	0 WARHEAD
185	337	-340	0	0	0	0	0	0	0 MISCL - AFT
186	347	-348	0	0	0	0	0	0	0 MISSILE CAS
187	349	-351	-364	-368	-95	-93	0	0	0 LOW LEG LT
188	350	-352	-365	-369	0	0	0	0	0 LOW LEG RT
189	351	-364	-353	-355	0	0	0	0	0 UP LEG LT
190	352	-365	-354	-355	0	0	0	0	0 UP LEG RT
191	353	0	0	0	0	0	0	0	0 HIP JNT LT
192	354	0	0	0	0	0	0	0	0 HIP JNT RT
193	355	-353	-354	-356	0	0	0	0	0 HIPS
194	356	-357	0	0	0	0	0	0	0 TORSO LOW
195	357	0	0	0	0	0	0	0	0 TORSO UP
196	358	-366	-360	-372	0	0	0	0	0 ARM UP LT
197	359	-367	-361	-373	-276	0	0	0	0 ARM UP RT
198	360	-366	0	0	0	0	0	0	0 ARM LOW LT
199	361	-367	0	0	0	0	0	0	0 ARM LOW RT
200	362	-357	0	0	0	0	0	0	0 NECK
201	363	-362	0	0	0	0	0	0	0 HEAD
202	364	-93	0	0	0	0	0	0	0 KNEE LT
203	365	0	0	0	0	0	0	0	0 KNEE RT
204	366	0	0	0	0	0	0	0	0 ELBOW LT
205	367	0	0	0	0	0	0	0	0 ELBOW RT
206	368	0	0	0	0	0	0	0	0 ANKLE LT
207	369	0	0	0	0	0	0	0	0 ANKLE RT
208	370	-360	0	0	0	0	0	0	0 HAND LT
209	371	-361	0	0	0	0	0	0	0 HAND RT
210	372	-357	0	0	0	0	0	0	0 SHLD JNT L
211	373	-357	-276	0	0	0	0	0	0 SHLD JNT
212	374	0	0	0	0	0	0	0	0 STARTER
213 OR	375 OR	376	0	0	0	0	0	0	0 CABLE

TABLE D-2. REGION DATA FOR OPTION 3 XR311 (CONTINUED)

REG NUM	REGION COMBINATION DATA										REMARKS		
214	OR	377	OR	378	OR	379	0	0	0	0	0	0	GAS LN
215	OR	380		-381	OR	382	-383	-386	0	0	0	0	MISSILE SKN
216		384		0		0	0	0	0	0	0	0	LAUNCH MOT
217	OR	385	OR	386		387	0	0	0	0	0	0	FLIGHT MOT
218		389		-388		-390	0	0	0	0	0	0	WARHEAD NOS
219	OR	383		-387	OR	388	0	0	0	0	0	0	WARHEAD
220		381		-384		0	0	0	0	0	0	0	MISCL AFT
221		391		-392		0	0	0	0	0	0	0	MISSILE CAS
222	OR	393	OR	394	OR	395	OR	396	0	0	0	0	TRIPOD
223		397		-356		-357	-358	-359	-360	-361	-362	0	
		-366		-367		-372	-373	0	0	0	0	0	
224	OR	398	OR	399		0	0	0	0	0	0	0	ARMOR SIDES
225		401		-402		0	0	0	0	0	0	0	TOW ARMOR
226		0		0		0	0	0	0	0	0	0	DUMMY HOOD
227		404		-226		-227	-225	-222	-224	0	0	0	WINDSHIELD
228	OR	405	OR	406		0	0	0	0	0	0	0	LEFT ARMOR
229	OR	407	OR	408		0	0	0	0	0	0	0	RIGHT ARMOR
230		409		0		0	0	0	0	0	0	0	RGUF ARMOR

TABLE D-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LCS PERCENT
1	9701	0	OIL SUMP	1	2
2	9702	0	ENGINE BLOCK	4	55
3	9703	0	INTAKE MANIFOLD	4	20
4	9704	0	CARBURATOR	5	50
5	9705	0	OIL FILTER	1	2
6	9706	0	WATER PUMP	4	30
7	9707	0	AIR FILTER	1	2
8	9708	0	FUEL PUMP	5	30
9	9709	0	FUEL FILTER	5	5
10	9710	0	ENGINE RADIATOR	7	15
11	9711	0	TRAN HOUSEING (HOLLOW)	4	90
12	9712	0	AUTOMATIC TRANSMISSION	5	40
13	9713	0	FRONT DIFFERENTIAL	1	50
14	9714	0	FNT PROPELLER SHAFT U-JOINT	1	55
15	9715	0	FNT TRANSMISSION U-JOINT	1	55
16	9716	0	FNT PROPELLER SHAFT (HOLLOW)	1	15
17	9717	0	LEFT FNT DIFFERENTIAL U-JOINT	1	55
18	9718	0	RIGHT FNT DIFFERENTIAL U-JOINT	1	55
19	9719	0	LEFT ROCKER ARM COVER	1	2
20	9720	0	RIGHT ROCKER ARM COVER	1	2
21	9721	0	DISTRIBUTOR	5	30
22	9722	0	IGNITION COIL	1	5
23	9723	0	LEFT FRONT AXLE	1	100
24	9724	0	LEFT FNT WHEEL U-JOINT	1	55
25	9725	0	RIGHT FRONT AXLE	1	100
26	9726	0	RIGHT FNT WHEEL U-JOINT	1	55
27	9727	0	REAR DIFFERENTIAL	1	50
28	9728	0	REAR LEFT DIFFERENTIAL U-JOINT	1	55
29	9729	0	REAR RIGHT DIFFERENTIAL U-JOINT	1	55
30	8737	0	TIRE	18	25
31	9737	0	WHEEL	1	50

TABLE D-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
32	8737	0	TIRE	18	25
33	9737	0	WHEEL	1	50
34	8737	0	TIRE	18	25
35	9737	0	WHEEL	1	50
36	8737	0	TIRE	18	25
37	9737	0	WHEEL	1	50
38	8704	0	AIR CLEANER HOSE	18	5
39	9112	0	CHASSIS BODY FLOOR	1	49
40	9113	0	ENGINE COMPARTMENT BULKHEAD	1	100
41	9114	0	TRANSMISSION COVER	1	49
42	9114	0	TRANSMISSION COVER	1	49
43	9114	0	TRANSMISSION COVER TOP	1	49
44	9730	0	TRANSMISSION REAR U-JOINT	1	55
45	9731	0	REAR DIFFERENTIAL U-JOINT	1	55
46	9736	0	REAR PROP	1	15
47	9732	0	REAR WHEEL U-JOINT	1	55
48	9733	0	REAR WHEEL U-JOINT	1	55
49	9734	0	REAR AXLE	1	100
50	9735	0	REAR AXLE	1	100
51	9651	0	RADIATOR WATER HOSE	18	5
52	9402	0	DISC BRAKE ROTOR	1	100
53	9403	0	DISC BRAKE ROTOR	1	100
54	9404	0	DISC BRAKE ROTOR	1	100
55	9405	0	DISC BRAKE ROTOR	1	100
56	9756	0	DRIVE TRAIN TUNNEL	1	49
57	9752	0	SEAT	18	100
58	9752	0	SEAT	18	100
59	9752	0	SEAT	18	100
60	9752	0	SEAT	18	100
61	9810	0	LOWER LEG LEFT DRIVER	28	100
62	9811	0	LOWER LEG RIGHT DRIVER	28	100

TABLE D-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
201	63	9812	0	UPPER LEG LEFT	DRIVER	28 100
	64	9813	0	UPPER LEG RIGHT	DRIVER	28 100
	65	9814	0	HIP JOINT LEFT	DRIVER	28 100
	66	9815	0	HIP JOINT RIGHT	DRIVER	28 100
	67	9816	0	HIPS	DRIVER	28 100
	68	9817	0	TORSO LOWER	DRIVER	28 100
	69	9818	0	TORSO CHEST	DRIVER	28 100
	70	9819	0	UPPER ARM LEFT	DRIVER	28 100
	71	9820	0	UPPER ARM RIGHT	DRIVER	28 100
	72	9821	0	LOWER ARM LEFT	DRIVER	28 100
	73	9822	0	LOWER ARM RIGHT	DRIVER	28 100
	74	9823	0	NECK	DRIVER	28 100
	75	9824	0	HEAD	DRIVER	28 100
	76	9825	0	KNEE LEFT	DRIVER	28 100
	77	9826	0	KNEE RIGHT	DRIVER	28 100
	78	9827	0	ELBOW LEFT	DRIVER	28 100
	79	9828	0	ELBOW RIGHT	DRIVER	28 100
	80	9829	0	ANKLE LEFT	DRIVER	28 100
	81	9830	0	ANKLE RIGHT	DRIVER	28 100
	82	9831	0	HAND LEFT	DRIVER	28 100
	83	9832	0	HAND RIGHT	DRIVER	28 100
	84	9833	0	SHOULDER JOINT LEFT	DRIVER	28 100
	85	9834	0	SHOULDER JOINT RIGHT	DRIVER	28 100
	86	9760	0	FUEL CELL		13 5
	87	8910	0	LOWER LEG LEFT	LOADER	28 100
	88	8911	0	LOWER LEG RIGHT	LOADER	28 100
	89	8912	0	UPPER LEG LEFT	LOADER	28 100
	90	8913	0	UPPER LEG RIGHT	LOADER	28 100
	91	8914	0	HIP JOINT LEFT	LOADER	28 100
	92	8915	0	HIP JOINT RIGHT	LOADER	28 100
	93	8916	0	HIPS	LOADER	28 100

TABLE D-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
94	8917	0	TORSO LOWER	LOADER	28 100
95	8918	0	TORSO CHEST	LOADER	28 100
96	8919	0	UPPER ARM LEFT	LOADER	28 100
97	8920	0	UPPER ARM RIGHT	LOADER	28 100
98	8921	0	LOWER ARM LEFT	LOADER	28 100
99	8922	0	LOWER ARM RIGHT	LOADER	28 100
100	8923	0	NECK	LOADER	28 100
101	8924	0	HEAD	LOADER	28 100
102	8925	0	KNEE LEFT	LOADER	28 100
103	8926	0	KNEE RIGHT	LOADER	28 100
104	8927	0	ELBOW LEFT	LOADER	28 100
105	8928	0	ELBOW RIGHT	LOADER	28 100
106	8929	0	ANKLE LEFT	LOADER	28 100
107	8930	0	ANKLE RIGHT	LOADER	28 100
108	8931	0	HAND LEFT	LOADER	28 100
109	8932	0	HAND RIGHT	LOADER	28 100
110	8933	0	SHOULDER JOINT LEFT	LOADER	28 100
111	0	0	DUMMY	0	0
112	8934	0	SHOULDER JOINT RIGHT	LOADER	28 100
113	9101	0	XR 311 FRONT SHEET METAL TOP	1	49
114	9102	0	FRONT BUMPER	1	100
115	9103	0	SHEET METAL LEFT SIDE	1	49
116	9104	0	SHEET METAL RIGHT SIDE	1	49
117	9105	0	LEFT ROCKER PANEL	1	49
118	9105	0	RIGHT ROCKER PANEL	1	49
119	9107	0	REAR BUMPER	1	100
120	9106	0	REAR SHEET METAL	1	49
121	9109	0	FLOOR SKID	1	100
122	9107	0	FORWARD BULKHEAD	1	100
123	9108	0	ENGINE DECK SHEET METAL	1	49
124	9149	0	ROLL BAR CORNER	1	17

TABLE D-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LCS PERCENT
125	9150	0	ROLL BAR CORNER	1	17
126	9151	0	ROLL BAR SIDE	1	17
127	9152	0	ROLL BAR SIDE	1	17
128	9153	0	ROLL BAR CENTRE AND TOP	1	17
129	9154	0	REAR ROLL BAR CORNER	1	17
130	9155	0	REAR ROLL BAR CORNER	1	17
131	9156	0	FRONT HOOD	1	49
132	9157	0	REAR ROLL BAR SIDE	1	17
133	9158	0	REAR ROLL BAR SIDE	1	17
134	9761	0	HEADLIGHT	1	2
135	9761	0	HEADLIGHT	1	2
136	9762	0	STEERING COLUMN	1	15
137	8762	0	STEERING WHEEL	18	100
138	9115	0	FRONT TOP ENGINE DECK	1	49
139	9763	0	BATTERY	8	38
140	9763	0	BATTERY	8	38
141	9641	0	PEDESTAL MOUNT	1	55
142	9642	0	RADIO CRC 160	1	24
143	9643	0	TOW GUIDANCE SET	5	21
144	9406	0	TOW TRAVERSE MOUNT	5	60
145	7300	0	MISSILE SKIN	5	100
146	7301	0	LAUNCH MOTOR	2	32
147	7302	0	FLIGHT MOTOR SECTION	2	23
148	7303	0	WARHEAD NOSE	5	100
149	7304	0	WARHEAD SECTION	5	55
150	7305	0	MISCELLANEOUS COMPONENTS	5	23
151	7306	0	MISSILE CASE	16	99
152	9500	0	DAY SIGHT	5	40
153	9510	0	TOW LAUNCHER TUBE	5	99
154	9511	0	TOW LAUNCHER TUBE	5	99
155	9512	0	TOW LAUNCHER TUBE	5	99

FIRE

TABLE D-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
156	9801	0	CREW BODY ARMOR	12	99
157	9801	0	CREW BODY ARMOR	12	99
158	9802	0	NIGHT SIGHT (STOWED)	5	80
159	9300	0	MISSILE SKIN	5	100
160	9301	0	LAUNCH MOTOR	2	32
161	9302	0	FLIGHT MOTOR SECTION	2	23
162	9303	0	WARHEAD NOSE	5	100
163	9304	0	WARHEAD SECTION	5	55
164	9305	0	MISCELLANEOUS COMPONENTS	5	23
165	9306	0	MISSILE CASE	16	99
166	9300	0	MISSILE SKIN	5	100
167	9301	0	LAUNCH MOTOR	2	32
168	9302	0	FLIGHT MOTOR SECTION	2	23
169	9303	0	WARHEAD NOSE	5	100
170	9304	0	WARHEAD SECTION	5	55
171	9305	0	MISCELLANEOUS COMPONENTS	5	23
172	9306	0	MISSILE CASE	16	99
173	9300	0	MISSILE SKIN	5	100
174	9301	0	LAUNCH MOTOR	2	32
175	9302	0	FLIGHT MOTOR SECTION	2	23
176	9303	0	WARHEAD NOSE	5	100
177	9304	0	WARHEAD SECTION	5	55
178	9305	0	MISCELLANEOUS COMPONENTS	5	23
179	9306	0	MISSILE CASE	16	99
180	9300	0	MISSILE SKIN	5	100
181	9301	0	LAUNCH MOTOR	2	32
182	9302	0	FLIGHT MOTOR SECTION	2	23
183	9303	0	WARHEAD NOSE	5	100
184	9304	0	WARHEAD SECTION	5	55
185	9305	0	MISCELLANEOUS COMPONENTS	5	23
186	9306	0	MISSILE CASE	16	99

TABLE D-3. REGIONS IDENTIFICATION FOR OPTION 3 XR311 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION		MATERIAL CODE	LOS PERCENT
205	187	8810	0	LOWER LEG LEFT	GUNNER	28 100
	188	8811	0	LOWER LEG RIGHT	GUNNER	28 100
	189	8812	0	UPPER LEG LEFT	GUNNER	28 100
	190	8813	0	UPPER LEG RIGHT	GUNNER	28 100
	191	8814	0	HIP JOINT LEFT	GUNNER	28 100
	192	8815	0	HIP JOINT RIGHT	GUNNER	28 100
	193	8816	0	HIPS	GUNNER	28 100
	194	8817	0	TORSO LOWER	GUNNER	28 100
	195	8818	0	TORSO CHEST	GUNNER	28 100
	196	8819	0	UPPER ARM LEFT	GUNNER	28 100
	197	8820	0	UPPER ARM RIGHT	GUNNER	28 100
	198	8821	0	LOWER ARM LEFT	GUNNER	28 100
	199	8822	0	LOWER ARM RIGHT	GUNNER	28 100
	200	8823	0	NECK	GUNNER	28 100
	201	8824	0	HEAD	GUNNER	28 100
	202	8825	0	KNEE LEFT	GUNNER	28 100
	203	8826	0	KNEE RIGHT	GUNNER	28 100
	204	8827	0	ELBOW LEFT	GUNNER	28 100
	205	8828	0	ELBOW RIGHT	GUNNER	28 100
	206	8829	0	ANKLE LEFT	GUNNER	28 100
	207	8830	0	ANKLE RIGHT	GUNNER	28 100
	208	8831	0	HAND LEFT	GUNNER	28 100
	209	8832	0	HAND RIGHT	GUNNER	28 100
	210	8833	0	SHOULDER JOINT LEFT	GUNNER	28 100
	211	8834	0	SHOULDER JOINT RIGHT	GUNNER	28 100
	212	9738	0	STARTER MOTOR		1 45
	213	9739	0	STARTER CABLE		7 99
	214	9740	0	GAS LINES		1 20
	215	8300	0	MISSILE SKIN	(READY)	5 100
	216	8301	0	LAUNCH MOTOR	(READY)	2 32
	217	8302	0	FLIGHT MOTOR SECTION	(READY)	2 23

TABLE C-3. REGIONS IDENTIFICATION FOR OPTION 3 XRB11 (CONTINUED)

REGION NUM	ITEM CODE	SPACE CODE	DESCRIPTION	MATERIAL CODE	LOS PERCENT
218	8303	0	WARHEAD NOSE (READY)	5	100
219	8304	0	WARHEAD SECTION (READY)	5	55
220	8305	0	MISCELLANEOUS COMPONENTS (READY)	5	23
221	8306	0	MISSILE CASE	16	99
222	8307	0	TOW TRIPOD	5	60
223	9801	0	BODY ARMOR	12	99
224	8224	0	ARMOR FOR GUNNER SIDE	12	79
225	8225	0	TOW ARMOR BOX	12	79
226	8226	0	DUMMY HOOD	12	79
227	8227	0	WINDSHIELD	12	79
228	8228	0	LEFT SIDE ARMOR	12	79
229	8229	0	RIGHT SIDE ARMOR	12	79
230	8230	0	ARMOR FLOP	12	79

APPENDIX E
COMBINATORIAL GEOMETRY BACKGROUND

APPENDIX E

COMBINATORIAL GEOMETRY BACKGROUND

The GIFT computer code requires a Combinatorial Geometry (COM-GEOM) target description as input data. Familiarization with the COM-GEOM technique and terminology is required to understand the description of the XR311-TOW system. The following is a brief introduction to the COM-GEOM technique of target description. Reference 1 gives a more detailed account of the COM-GEOM method as required for input to the GIFT code.

Engineering drawings, manuals, photographs or other descriptive material are required to produce a COM-GEOM description. The COM-GEOM technique utilized twelve basic geometric solids combined under three set-theory type operations to define the shape and location of each component of a target. A complete COM-GEOM description contains the three distinct parts: a solid table, a region table and a region identification table.

A solid is defined as one of the twelve geometric shapes available for COM-GEOM descriptions (See Table E-1). The parameters of a solid give its location, size, and orientation within the coordinate system established for the target. Each solid is uniquely numbered and its parameters listed in the solid table.

A region is the space occupied by a single solid or combination of solids. Solids are combined using the three operations: intersection (+), union (OR) and difference (-). The intersection (+) of two solids is defined as the space in common with both solids. The union (OR) of two solids is defined as the space in both of the solids. The difference (-) of two solids is defined as the space in the first solid minus the space of the second solid. Figure E-1 is a graphic illustration of these three operations. Any number of solids from the solid table may be used to define a region. Each region is uniquely numbered and its defining combination of solids is listed in the region table.

In the region identification table, each region is assigned an identification code number. These code numbers either identify each specific region as a component of the target or as an air space. Table A-2 lists the groups of code numbers used in this description and the class of components which they represent. Space not described as a region is assigned the air space code "01" by the GIFT code. It is not necessary to describe the inside air of a target, in which case both inside and outside air will be identified by the 01 space code. However, in many targets, it is important to distinguish between inside and outside air. For these targets, all interior space is described as a region and identified as inside air, leaving the 01 space code for outside air only. The RAYAIR subroutine of the GIFT code allows any region identified with a space code to overlap any region identified with an item code or

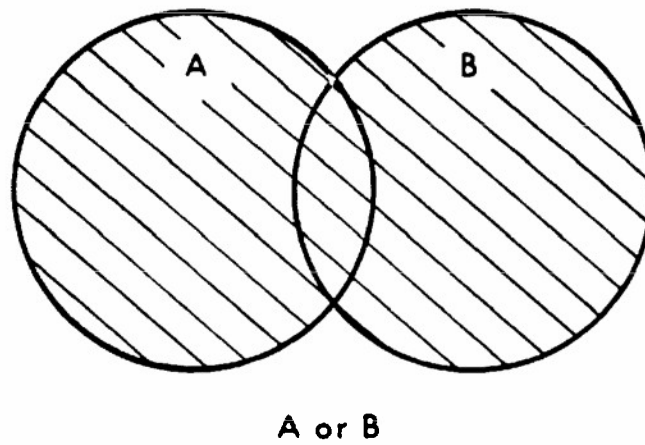
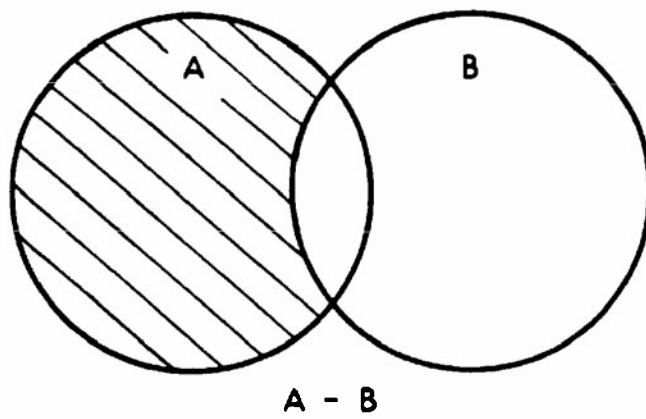
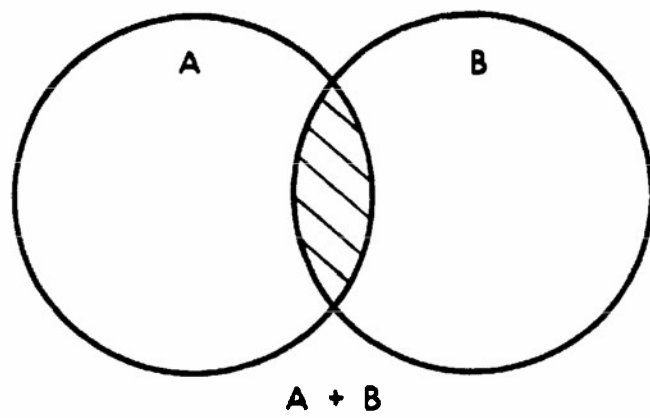


Figure E-1. INTERSECTION (+), SUBTRACTION (-), UNION (OR) OF SOLIDS

the same space code. However, regions with different code numbers cannot overlap.

Table E-1. Geometric Solids Used in COM-GEOM Descriptions

<u>SYMBOL</u>	<u>SOLID NAME</u>
RPP	Rectangular Parallelepiped
BOX	Box
RAW	Right Angle Wedge
ARB	Arbitrary Convex Polyhedron
ARS	Triangular Surfaced Polyhedron
ELL	Ellipsoid of Revolution
SPH	Sphere
RCC	Right Circular Cylinder
REC	Right Elliptical Cylinder
TRC	Truncated Right Angle Cone
TEC	Truncated Elliptic Cone
TOR	Torus

The region identification table also allows 40 alphanumeric characters of descriptive data per region. The analyst needs to know the type and percentage of material making up each region. The percentage value is used to produce an equivalent line-of-sight thickness of the material type. This information is included in the 40 characters of descriptive data in the region identification table. In the XR311-TOW description, the last three preceding characters are a code indicating the material type.

The three tables described above comprise a complete COM-GEOM target description as required for input to the GIFT computer code.

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